



# Missouri Department of Natural Resources

## **Biological Assessment and Stressor Study Report**

### **Davis Creek Lafayette County**

**August 2009 – April 2010**

Prepared for:

Missouri Department of Natural Resources  
Division of Environmental Quality  
Water Protection Program  
Water Pollution Control Branch

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## **1.0 Introduction**

At the request of the Water Protection Program (**WPP**), the Environmental Services Program's (**ESP**) Water Quality Monitoring Section (**WQMS**) conducted a biological and habitat assessment and stressor study of Davis Creek. Davis Creek flows through a rural watershed in Lafayette and Saline counties in central western Missouri.

On the 2002 303(d) list, a two mile class "C" section of Davis Creek immediately downstream of the Odessa Wastewater Treatment Plant (**WWTP**) was listed as impaired for biochemical oxygen demand (**BOD**) and nutrients as pollutants.

On June 19, 2009 a study plan was submitted to the WPP (Appendix A). See Section 1.4 for the biological and habitat assessment null hypotheses stated in the study plan.

### **1.1 Purpose**

The purpose of this study was to determine if the Davis Creek macroinvertebrate community and/or stream habitat were impaired and, if so, determine the possible causes.

### **1.2 Objectives**

- Determine if the macroinvertebrate community of Davis Creek is impaired.
- Determine the habitat characteristics of Davis Creek.
- Define the water quality characteristics of Davis Creek.

### **1.3 Tasks**

- Conduct a biological assessment of the macroinvertebrate community of Davis Creek.
- Conduct a habitat assessment of Davis Creek.
- Conduct a water quality assessment of Davis Creek.

### **1.4 Null Hypotheses**

- Macroinvertebrate assemblages are similar between Davis Creek and biocriteria reference (**BIOREF**) streams.
- Macroinvertebrate assemblages are similar among Davis Creek stream segments.
- Macroinvertebrate assemblages will not differ substantially between the two sample seasons.
- Habitat quality is similar among Davis Creek stream segments.
- Habitat quality is similar between Davis Creek and biocriteria reference streams.

## 2.0 Study Area

Davis Creek originates just south of the town of Odessa. It flows predominantly east through its rural watershed of grassland and cropland (Table 2) until its confluence with Blackwater River near Sweet Springs in southwest Saline County.

According to Chapter 7 of the State Water Quality Standards, 10 CSR 20-7.031 (MDNR 2009a), a 12.2-mile segment of Davis Creek is designated class “C.” That segment begins at sec. 7, T. 48 N., R. 27 W. and ends at sec. 8, T. 48 N., R. 26 W. where it becomes class “P.” The class “P” section runs for 25.8 miles to its confluence with Blackwater River. Beneficial use designations are for livestock and wildlife watering, protection of warm water aquatic life, human health—fish consumption, and whole body contact recreation B. The class “C” section also has secondary contact recreation listed as a beneficial use.

Davis Creek is located within the Central Plains/Blackwater/Lamine Ecological Drainage Unit (**EDU**). An EDU is a region in which biological communities and habitat conditions can be expected to be similar. See Appendix B for a map of EDUs and the 14-digit Hydrologic Units (**HU**) that contain the sampling reaches for Davis Creek. See Table 1 for a comparison of land use for the EDU and the 14-digit HUs.

Table 1  
 Percent Land Cover

|  | 14-digit HUC   | Urban | Cropland | Grassland | Forest | Wetland | Open Water |
|--|----------------|-------|----------|-----------|--------|---------|------------|
| Central Plains/Lamine/Blackwater Drainages EDU |                | 7     | 38       | 31        | 18     | -       | -          |
| Davis Creek Sites #1, 2, and 3                 | 10300104060001 | 6     | 40       | 35        | 15     | 0       | 1          |

## 2.1 Water Quality Concerns

As mentioned in Section 1.0, the two mile class “C” section downstream of the Odessa WWTP was listed on the 2002 303(d) list of impaired waters for BOD and nutrients as pollutants. The source of these pollutants was the Odessa wastewater lagoon system. In the years since the 2002 listing the city of Odessa has upgraded to a mechanical WWTP. A Total Maximum Daily Load (**TMDL**) was written for Davis Creek by MDNR, Water Pollution Control Program (**WPCP**, now the Water Pollution Control Branch, or **WPCB** of the WPP) in December 2000 and revised in August 2003 (MDNR 2003a). This two mile section of Davis Creek was not included on the 2002/2004 303(d) list.

Agricultural activity, mainly row crops and cattle pasture, dominates the landscape in central western Missouri, including the Davis Creek basin. Erosion of agricultural land is a major cause of sediment contribution to northern Missouri streams. Oftentimes row

crops are planted to the edge of stream banks, thus eliminating stabilizing riparian vegetation. This causes the banks to become unstable, steep, and without shade resulting in higher summer water temperatures and loss of habitat.

## 2.2 Davis Creek Site Descriptions

Three sampling locations were selected for this study. Sample stations were located in Lafayette County (see map Appendix B). The average width and discharge measurements in cubic feet per second (**cfs**) during both survey periods are given for each Davis Creek sampling station in Table 2.

The sample stations are typical of the Central Plains/Blackwater/Lamine EDU with steep banks, predominantly clay and silt bottom, and little if any rock or gravel substrate. All sampling stations are in the class “C” segment of Davis Creek.

Davis Creek Station #1 (sec. 12, T. 48 N., R. 27 W.) is located just upstream of Oakland School Road crossing. Geographic coordinates at the downstream terminus of this station are UTM Grid 15, East 427052, and North 4314516.

Davis Creek Station #2 (SW sec. 10, T. 48 N., R. 27 W.) is located just upstream of the old bridge on private property on Highway M. Geographic coordinates at the downstream terminus of this station are UTM Grid 15, East 422980, and North 4314361.

Davis Creek Station #3 (NE ¼, NW ¼ sec. 9, T. 48 N., R. 27 W.) is located upstream of Starr School Road crossing and downstream of the Odessa WWTP. Geographic coordinates at the downstream terminus of this station are UTM Grid 15, East 421891, and North 4315253.

Table 2  
Davis Creek Physical Characteristics of the Stations

| Davis Creek Station # | Average Width (feet) | Fall 2009 Flow (cfs) | Spring 2010 Flow (cfs) |
|-----------------------|----------------------|----------------------|------------------------|
| 1                     | 47.2                 | 0.41                 | 11.85                  |
| 2                     | 24.8                 | 0.32                 | 5.59                   |
| 3                     | 18.2                 | 0.34                 | 4.88                   |

## 3.0 Methods

Fall sampling at Davis Creek was conducted on September 15, 2009 and in the spring on April 21, 2010. Sampling was conducted by Brian Nodine, Dave Michaelson, and Dave Gullic of ESP. Sampling consisted of macroinvertebrate collection and water quality sampling. Habitat assessments and quantitative channel measurements on Davis Creek as

well as a BIOREF station on East Fork Crooked River were conducted during the fall 2009 sampling season.

For the stressor portion of the study, dissolved oxygen and specific conductance dataloggers were deployed on August 12, 2009 for a two week period at stations #1 and #2.

### **3.1 Habitat**

Row crop agriculture land use can be associated with instream habitat problems. These problems are often the result of erosion, sedimentation, hydrologic changes, and channelization. Although instream habitat features can be directly measured, the causes of habitat degradation are difficult to pinpoint and can range from local to watershed scale sources. For this study, habitat measurements were collected at the watershed, reach, and local scales to facilitate assessment of the causes of poor habitat conditions.

#### **3.1.1 Land Use**

Land cover data were derived from the Thematic Mapper satellite data from 2001-2004 and interpreted by the Missouri Resource Assessment Partnership (**MoRAP**). See Section 2.0 and Table 1 for land use information.

#### **3.1.2 Habitat Assessment**

A standardized habitat procedure for glide/pool stream types was followed in the Stream Habitat Assessment Project Procedure (**SHAPP**) (MDNR 2010a). Davis Creek habitat scores were compared with the habitat score from a BIOREF station on East Fork Crooked River from an assessment conducted during the same season.

#### **3.1.3 Instream Width and Depth Measurements**

It is common for streams in the plains regions of Missouri to suffer from a lack of instream habitat due to agricultural land use and channelization. These streams trend toward wider channels with shallower water depths and more homogeneous habitat (Haithcoat et al. 2003). At each sampling station, a series of 10 bank-to-bank transects was established. Each transect was equally spaced within the sampling reach, which was 20x the average width. Measurements taken at each transect included lower bank width (see SHAPP for a definition of lower bank), wetted width, and water depth at  $\frac{1}{4}$ ,  $\frac{1}{2}$ , and  $\frac{3}{4}$  of the distance across the wetted width. To document critical habitat conditions, measurements were collected during the fall low-flow period. These measurements were compared with channel measurements from BIOREF stations at Little Drywood Creek and East Fork Crooked River (including measurements collected during the East Fork Crooked River habitat assessment) within the same EDU.

### 3.2 Physicochemical Data Collection and Analysis

During each survey period, *in situ* water quality measurements were collected at all stations for temperature (°C), dissolved oxygen concentration (mg/L), conductance (µS/cm), and pH. These measurements followed Standard Operating Procedures MDNR-ESP-101 Field Measurement of Water Temperature (MDNR 2010b), MDNR-ESP-103 Sample Collection and Field Analysis for Dissolved Oxygen Using a Membrane Electrode Meter (MDNR 2009b), MDNR-ESP-102 Field Analysis for Specific Conductance (MDNR 2010c), and MDNR-ESP-100 Field Analysis of Water Samples for pH (MDNR 2009c), respectively. Additionally, water samples collected in the field were analyzed by ESP's Chemical Analysis Section (**CAS**) for chloride, total phosphorus, non-filterable residue (**NFR**), ammonia-N, nitrate + nitrite-N, and total nitrogen. Turbidity (**NTU**) was analyzed by the WQMS.

Stream discharge in cubic feet per second (**cfs**) was measured at each sampling station using a Marsh-McBirney Flo-Mate Model 2000. Discharge was calculated per the methods in the Standard Operating Procedure MDNR-ESP-113 Flow Measurement in Open Channels (MDNR 2010d).

Physicochemical data were summarized and presented in tabular form for comparison among the three Davis Creek stations and between sample seasons.

### 3.3 Long-Term Dissolved Oxygen and Specific Conductance Measurements

Dataloggers were deployed for a two week period during anticipated summertime low-flow periods to measure dissolved oxygen and specific conductance every 15 minutes.

### 3.4 Macroinvertebrate Collection and Analysis

A standardized sample collection procedure was followed as described in the Semi-quantitative Macroinvertebrate Stream Bioassessment Project Procedure (**SMSBPP**) (MDNR 2010e). Three standard habitats, non-flowing water with depositional substrate (**NF**), large woody debris (known also as snag habitat = **SG**), and rootmat (**RM**) at the stream edge, were sampled at all locations.

A standardized sample analysis procedure was followed as described in the SMSBPP. The SMSBPP provides details on the calculation of metrics and scoring of the multi-metric Macroinvertebrate Stream Condition Index (**MSCI**). The following four metrics were used: 1) Taxa Richness (**TR**); 2) total number of taxa in the orders Ephemeroptera, Plecoptera, and Trichoptera (**EPTT**); 3) Biotic Index (**BI**); and 4) Shannon Diversity Index (**SDI**).

Macroinvertebrate data were analyzed in three specific ways. First, Davis Creek stations were compared to biological criteria for the Central Plains/Blackwater/Lamine EDU. Second, a longitudinal comparison between the three Davis Creek sites was performed.

Finally, a comparison was made of Davis Creek data between fall and spring sampling seasons. See Tables 9 and 10 for biological criteria for warm water reference streams in the Central Plains/Blackwater/Lamine EDU for the fall and spring.

#### 4.0 Quality Assurance/Quality Control (QA/QC)

QA/QC procedures were followed as described in pertinent Standard Operating and Project Procedures.

#### 5.0 Data Results and Analyses

##### 5.1 Land Use

According to MoRAP land cover files (see Table 1), the watershed land use of Davis Creek is mostly cropland followed by grassland. A very small area of the land in the Davis Creek drainage is forest, urban, or open water.

##### 5.2 Habitat Assessment

Habitat assessment scores were recorded for each sampling station. Results are presented in Table 3. According to the project procedure guidance, the total score from the physical habitat assessment of the study sites should be at least 75% of the BIOREF condition to support a similar biological community. Habitat scores for the Davis Creek stations were compared with an East Fork Crooked River BIOREF station habitat assessment conducted during the same season. All Davis Creek stations exceeded the 75% threshold so it is therefore inferred that based on habitat scores, they should support comparable biological communities.

Table 3  
 Habitat Scores (Fall 2009)

| <b>BIOREF Stream</b>    | <b>Habitat Score</b> | <b>Davis Creek Station #</b> | <b>Habitat Score</b> | <b>% of E. F. Crooked BIOREF</b> |
|-------------------------|----------------------|------------------------------|----------------------|----------------------------------|
| East Fork Crooked River | 118                  | 1                            | 108                  | 91.5                             |
|                         |                      | 2                            | 128                  | 108.5                            |
|                         |                      | 3                            | 103                  | 87.3                             |

##### 5.3 Stream Width and Depth Measurements

Transect measurements for average channel width (= lower bank width), average wetted width, average stream depth, maximum depth, and standard deviation for depths of Davis Creek stations are represented in Table 4. Values from selected BIOREF stations also are presented. These BIOREF stations are among those used for calculating the biological criteria for Davis Creek and represent four stream channel measurements from the Central Plains/Blackwater/Lamine EDU. Channel width to wetted width and wetted

width to depth ratios also are presented. These ratios allow for standardization of channel measurements for longitudinal comparisons. Channel width typically widens as a stream proceeds downstream, but wetted width and depth do not necessarily have the same pattern. These ratios allow channel widths and depths to be compared along a stream reach.

Davis Creek channel measurements were comparable to those of the BIOREF measurements with few exceptions. The average width of Davis Creek station #3 falls narrower than the range of widths of the BIOREF stations; however that station, like the other Davis Creek stations, is in the Class "C" section of the stream and is at the upper end of the watershed.

Other deviations from the BIOREF measurements include ratios of channel width to wetted width and wetted width to depth. The channel width to wetted width ratios at Davis Creek are lower than those of the BIOREF stations, indicating a higher channel flow status at Davis Creek. The wetted width to depth ratio difference is most notable at Davis Creek station #1 where it is higher than at all other stations. A higher wetted width to depth ratio tends to indicate a wider, shallower stream segment which typically provides poorer habitat. However, Davis Creek station #1 also has the highest standard deviation of depth and maximum depth of all stations measured. A higher standard deviation of depth indicates more heterogeneity of depth in a stream segment, typically resulting in more habitat variability.

Table 4  
 Channel Dimensions

| Station            | Average Channel Width (ft.) | Average Wetted Width (ft.) | Average Depth (ft.) | Maximum Depth (ft.) | Standard Deviation of Depth | Channel Width/Wetted Width | Wetted Width/Depth |
|--------------------|-----------------------------|----------------------------|---------------------|---------------------|-----------------------------|----------------------------|--------------------|
| Davis Cr. #1       | 47.2                        | 33.3                       | 1.1                 | 3.1                 | 0.7                         | 1.4                        | 30.8               |
| Davis Cr. #2       | 24.8                        | 17.4                       | 0.8                 | 1.7                 | 0.5                         | 1.4                        | 22.1               |
| Davis Cr. #3       | 18.2                        | 17.3                       | 1.1                 | 2.9                 | 0.6                         | 1.0                        | 16.1               |
| BIOREF             | 30.0                        | 17.2                       | 1.5                 | 2.8                 | 0.5                         | 1.7                        | 11.4               |
| East F. Crooked #1 | 24.7                        | 15.6                       | 1.1                 | 2.0                 | 0.4                         | 1.6                        | 14.3               |
| Little Drywood #1  | 48.1                        | 21.5                       | 1.1                 | 2.2                 | 0.5                         | 2.2                        | 20.0               |
| Little Drywood #2  | 37.1                        | 16.0                       | 0.8                 | 1.8                 | 0.3                         | 2.3                        | 18.7               |

\*Measurements taken during fall sampling season habitat assessment

## 5.4 Physicochemical Data

*In situ* water quality measurements and turbidity are summarized in Table 5 (fall 2009) and Table 6 (spring 2010). Mean temperatures at Davis Creek stations were 20.1°C in the fall 2009 and 15.3°C in the spring 2010 surveys.

Dissolved oxygen levels were consistent between stations within seasons and did not fall below the Water Quality Standards minimum concentration for warm-water and cool-water fisheries (5.0 mg/L). Typically, dissolved oxygen levels are higher during the spring season when water temperatures are cooler.

Turbidity levels were consistent between sample stations within seasons. The sampling periods occurred during particularly low-flow events for both seasons. Davis Creek is a stream with a predominantly silt and clay substrate that easily becomes turbid during periods of high flow and runoff.

Table 5  
*In situ* Water Quality Measurements and Turbidity at all Stations (Fall 2009)

| Station | Parameter  |                             |               |     |             |
|---------|------------|-----------------------------|---------------|-----|-------------|
|         | Temp. (°C) | Diss. O <sub>2</sub> (mg/L) | Cond. (µS/cm) | pH  | Turb. (NTU) |
| 1       | 21.1       | 7.1                         | 531           | 8.3 | 2.42        |
| 2       | 21.0       | 6.9                         | 641           | 8.2 | 4.26        |
| 3       | 20.7       | 6.85                        | 691           | 7.9 | 5.55        |

Table 6  
*In situ* Water Quality Measurements and Turbidity at all Stations (Spring 2010)

| Station | Parameter  |                             |               |     |             |
|---------|------------|-----------------------------|---------------|-----|-------------|
|         | Temp. (°C) | Diss. O <sub>2</sub> (mg/L) | Cond. (µS/cm) | pH  | Turb. (NTU) |
| 1       | 14.7       | 10.2                        | 433           | 8.1 | 13.4        |
| 2       | 15.1       | 11.2                        | 501           | 8.0 | 9.41        |
| 3       | 16.2       | 12.7                        | 510           | 8.1 | 8.82        |

Nutrient and chloride concentrations are presented in Table 7 (fall 2009) and Table 8 (spring 2010). Ammonia results were consistent among stations and ranged from 0.13 to 0.15 mg/L during the fall season and from 0.08 to 0.10 mg/L during the spring season. Nitrate + nitrite, total nitrogen, and total phosphorus concentrations showed a notable drop moving downstream during the fall season, especially between stations #1 and #2. Nitrate + nitrite, total nitrogen, and total phosphorus concentrations were lower and more consistent among stations during the spring sampling season. All chloride levels were below chronic criteria for protection of aquatic life and drinking water supply.

**Table 7**  
 Nutrient, Chloride, and NFR Concentrations at all Stations (Fall 2009)

| Station | Sample # | Parameter (mg/L)   |                                     |         |         |          |      |
|---------|----------|--------------------|-------------------------------------|---------|---------|----------|------|
|         |          | NH <sub>3</sub> -N | NO <sub>3</sub> +NO <sub>2</sub> -N | Total N | Total P | Chloride | NFR  |
| 1       | 0914668  | 0.13               | 3.69                                | 4.53    | 0.57    | 35.3     | 8.00 |
| 2       | 0914669  | 0.15               | 11.0                                | 11.1    | 1.69    | 52.1     | <5   |
| 3       | 0914670  | 0.14               | 15.9                                | 16.1    | 2.59    | 61.7     | 9.00 |

**Table 8**  
 Nutrient, Chloride, and NFR Concentrations at all Stations (Spring 2010)

| Station | Sample # | Parameter (mg/L)   |                                     |         |         |          |      |
|---------|----------|--------------------|-------------------------------------|---------|---------|----------|------|
|         |          | NH <sub>3</sub> -N | NO <sub>3</sub> +NO <sub>2</sub> -N | Total N | Total P | Chloride | NFR  |
| 1       | 1003971  | 0.10               | 1.40                                | 1.98    | 0.15    | 23.9     | 6.00 |
| 2       | 1003972  | 0.09               | 2.10                                | 2.73    | 0.32    | 31.0     | <5   |
| 3       | 1003973  | 0.08               | 2.20                                | 2.88    | 0.36    | 34.7     | <5   |

### 5.5 Long-Term Dissolved Oxygen and Specific Conductance

Dataloggers were deployed during the typically low-flow summer season prior to the fall sampling season at two of the three Davis Creek study stations (#1 and #2). These dataloggers collected dissolved oxygen (mg/L) and specific conductance (µS/cm) measurements every 15 minutes. They were deployed on August 12, 2009 and left for two weeks. The datalogger at station #1 functioned during the entirety of the two week period; however, the datalogger at station #2 did not begin collecting data until August 15, 2009 at 14:30h.

Dissolved oxygen results are illustrated graphically in Figure 1 for station #1 and Figure 2 for station #2. For all dissolved oxygen and specific conductance data, refer to Appendix D.

At station #1 dissolved oxygen results ranged from 3.62 to 7.28 mg/L, with a mean of 5.70 mg/L; at station #2 dissolved oxygen results ranged from 6.11 to 9.03 mg/L, with a mean of 7.51 mg/L. At station #1 the dissolved oxygen values fell below 5.0 mg/L, the minimum concentration allowed by the Water Quality Standards, at the beginning and end of the deployment period. This station, however, was downstream of the 2002 303(d) listed reach of Davis Creek. At station #2, which was within the previously listed reach, dissolved oxygen values were consistently above the required 5.0 mg/L throughout the two week period the datalogger was deployed.

Specific conductance values at station #1 ranged from 86 to 363 µS/cm, with a mean of 275 µS/cm, and at station #2 ranged from 146 to 572 µS/cm, with a mean of 396 µS/cm.

Relationships between dissolved oxygen and water temperature are represented for Davis Creek stations #1 and #2 in Figures 3 and 4, respectively. Figure 3 illustrates a general trend in lower dissolved oxygen during periods of higher water temperatures. Average water temperature at station #1 was 22.55°C with a maximum water temperature of 26.16°C and the average water temperature at station #2 was 21.66°C with a maximum of 25.05°C.

One important issue to note about comparing average, minimum, and maximum values between the two stations' data is that station #2 is not represented by the same duration of time as station #1. However, during the time frame when both dataloggers were actively collecting data, only station #1 experienced dissolved oxygen concentrations below 5.0 mg/L. Dissolved oxygen at station #2 was consistently above the minimum WQS levels.

Figure 1

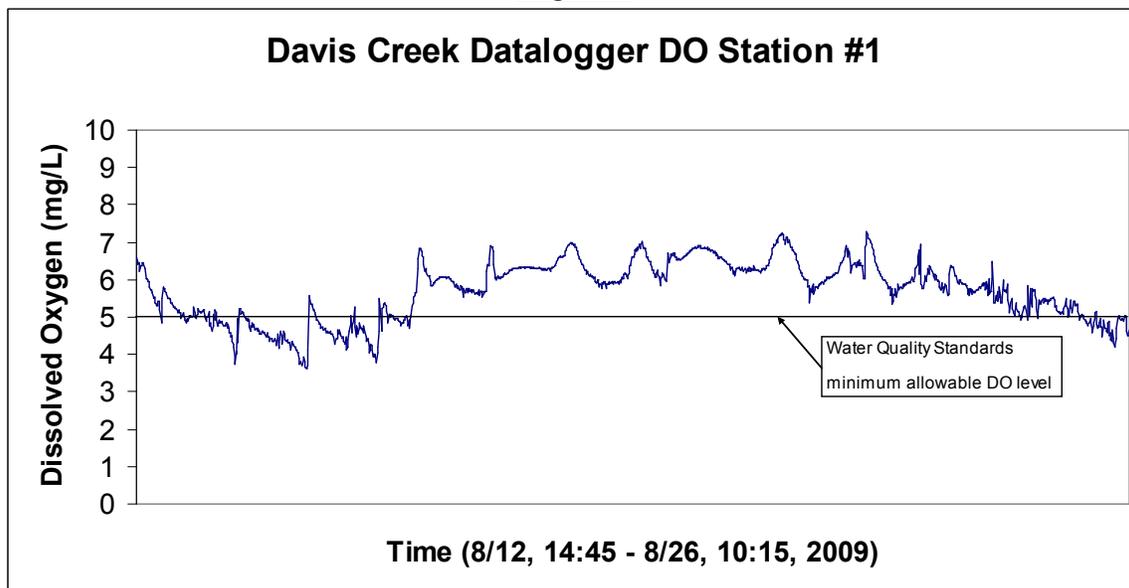


Figure 2

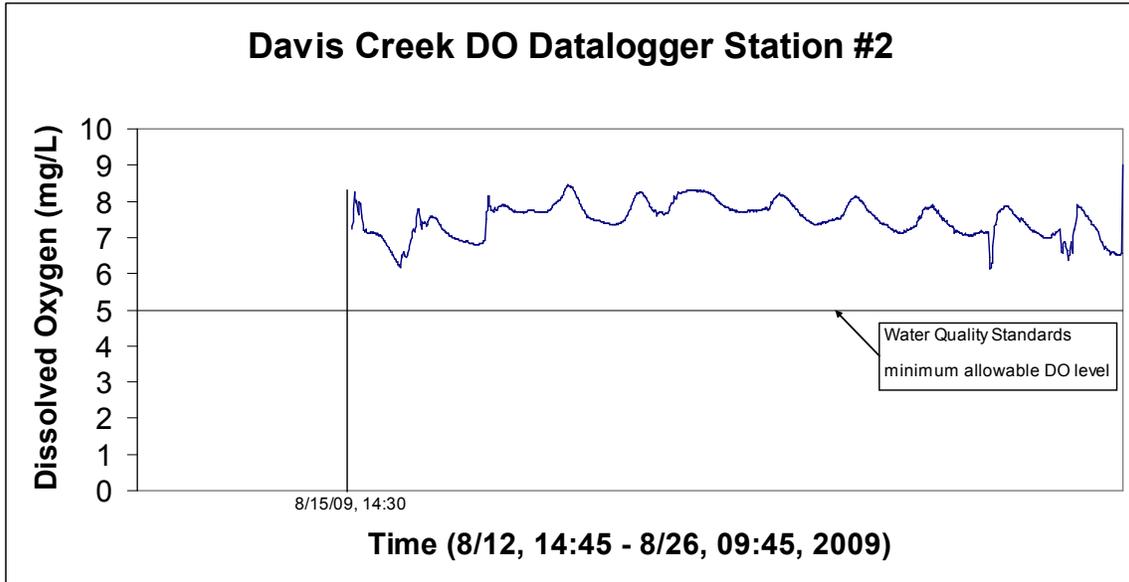


Figure 3

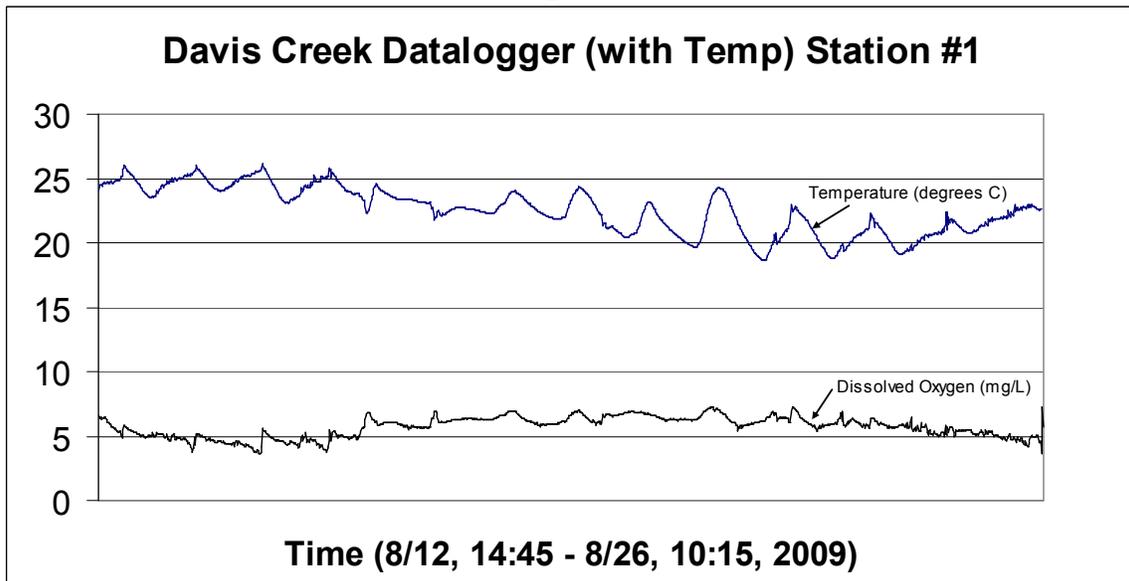
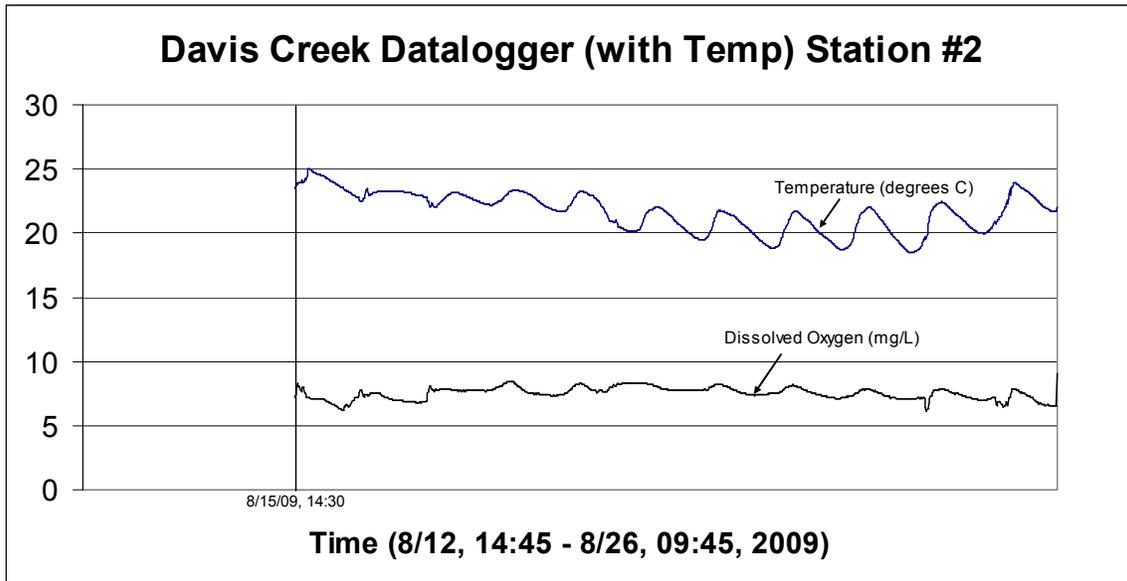


Figure 4



## 5.6 Biological Assessment

### 5.6.1 Semi-quantitative Macroinvertebrate Stream Bioassessment Project Procedure (SMSBPP)

The SMSBPP evaluation used biological criteria that were calculated for the Central Plains/Blackwater/Lamine EDU from ESP's Wadeable/Perennial Biological Reference Stream database. See Biological Criteria for Wadeable/Perennial Streams of Missouri (MDNR 2002) for more explanation. These criteria are listed for fall and spring seasons in Tables 9 and 10, respectively. Macroinvertebrate Stream Condition Index supportability scores of 20-16 qualify as fully supporting, 14-10 as partially supporting, and 8-4 as non-supporting of aquatic life.

Table 9  
 Biological Criteria for Warm Water Reference Streams in the Central Plains/Blackwater/Lamine EDU (Fall Season)

|      | Score = 5 | Score = 3 | Score = 1 |
|------|-----------|-----------|-----------|
| TR   | >54       | 27-54     | <27       |
| EPTT | >5        | 3-5       | <3        |
| BI   | <7.6      | 7.6-8.9   | >8.9      |
| SDI  | >2.86     | 1.43-2.86 | <1.43     |

Table 10  
 Biological Criteria for Warm Water Reference Streams in the Central  
 Plains/Blackwater/Lamine EDU (Spring Season)

|      | Score = 5 | Score = 3 | Score =1 |
|------|-----------|-----------|----------|
| TR   | >49       | 25-49     | <25      |
| EPTT | >7        | 4-7       | <4       |
| BI   | <7.3      | 7.4-8.7   | >8.8     |
| SDI  | >2.52     | 1.27-2.52 | <1.27    |

### 5.6.2 Comparisons with Central Plains/Blackwater/Lamine EDU Biological Criteria Reference Data

Macroinvertebrate Stream Condition Indices were calculated for Davis Creek as derived from biological criteria from Central Plains/Blackwater/Lamine EDU reference streams. The four metrics, total scores, and MSCI supportability rankings during fall 2009 and spring 2010 are presented in Tables 11 and 12, respectively.

Table 11  
 Metric Values and Stream Condition Indices for Davis Creek, Fall 2009 Sampling Season

| Station # | Sample # | TR | EPTT | BI  | SDI  | MSCI | Supportability   |
|-----------|----------|----|------|-----|------|------|------------------|
| 1         | 0918460  | 54 | 5    | 7.5 | 3.08 | 16   | <b>Fully</b>     |
| 2         | 0918461  | 50 | 5    | 7.6 | 2.79 | 14   | <b>Partially</b> |
| 3         | 0918462  | 49 | 3    | 7.4 | 2.87 | 14   | <b>Partially</b> |

Table 12  
 Metric Values and Stream Condition Indices for Davis Creek,  
 Spring 2010 Sampling Season

| Station # | Sample # | TR | EPTT | BI  | SDI  | MSCI | Supportability |
|-----------|----------|----|------|-----|------|------|----------------|
| 1         | 1004031  | 70 | 7    | 7.4 | 3.06 | 16   | <b>Fully</b>   |
| 2         | 1004032  | 66 | 6    | 7.5 | 3.17 | 16   | <b>Fully</b>   |
| 3         | 1004033  | 52 | 5    | 7.3 | 2.93 | 18   | <b>Fully</b>   |

### 5.6.3 Davis Creek Longitudinal Comparisons

There were little differences between MSCI scores longitudinally within sampling seasons between stations even though two of the three stations during the fall season only received a “partially” supporting rating. The most notable difference in metrics was during the spring sampling season in which taxa richness dropped from 70 to 52 as the stations progressed upstream.

#### 5.6.4 Davis Creek Seasonal Comparisons

There were differences in supportability rankings between seasons. All three stations received a “fully” supporting rating during the spring season, whereas only one of the three stations received a “fully” supporting rating during the fall season.

#### 5.6.5 Macroinvertebrate Percent and Community Composition

Macroinvertebrate taxa richness, EPT taxa, percent EPT relative abundance, and top five dominant families are presented in Table 13 for the fall sampling season and Table 14 for the spring sampling season. The percent of relative abundance data was averaged from the sum of the three macroinvertebrate habitats (depositional non-flow, woody debris, and rootmat) sampled at each station. See Appendix C for all macroinvertebrate data.

Diptera was the dominant order at all three Davis Creek stations during both sampling seasons, with Chironomidae being the dominant family.

Table 13  
 Fall 2009 Macroinvertebrate Composition (percentages rounded to whole numbers)

| Station #                           | 1  | 2  | 3  |
|-------------------------------------|----|----|----|
| % Ephemeroptera                     | 5  | 11 | 6  |
| % Plecoptera                        | 0  | 0  | 0  |
| % Trichoptera                       | 6  | 0  | 0  |
| Total EPT %                         | 11 | 11 | 6  |
| % Diptera                           | 51 | 62 | 68 |
| <b>% Top Five Dominant Families</b> |    |    |    |
| Chironomidae                        | 50 | 65 | 68 |
| Physidae                            | 14 | 11 | 5  |
| Coenagrionidae                      | 11 | 6  | 6  |
| Hyalellidae                         | 6  |    |    |
| Caenidae                            | 4  | 11 | 5  |
| Tubificidae                         |    | 2  |    |
| Planorbidae                         |    |    | 8  |

Table 14  
 Spring 2010 Macroinvertebrate Composition (percentages rounded to whole numbers)

| Station #                           | 1  | 2  | 3  |
|-------------------------------------|----|----|----|
| % Ephemeroptera                     | 23 | 15 | 9  |
| % Plecoptera                        | 0  | 0  | 0  |
| % Trichoptera                       | 2  | 0  | 4  |
| Total EPT %                         | 25 | 15 | 13 |
| % Diptera                           | 57 | 66 | 74 |
| <b>% Top Five Dominant Families</b> |    |    |    |
| Chironomidae                        | 56 | 65 | 74 |
| Caenidae                            | 22 | 15 | 9  |
| Tubificidae                         | 10 | 4  | 4  |
| Ancylidae                           | 2  |    |    |
| Elmidae                             | 1  |    |    |
| Hyalellidae                         |    | 4  |    |
| Coenagrionidae                      |    | 2  |    |
| Crangonyctidae                      |    |    | 2  |
| Hydropsychidae                      |    |    | 2  |

## 6.0 Discussion

Physicochemical results revealed few definitive trends other than somewhat higher nutrient levels during the fall sampling season. There were no definitive water quality parameters measured during this study that explain the failure of the macroinvertebrate communities to score fully supporting rankings at stations #2 and #3 during the fall season. Station #2 was only one EPT taxon short of receiving a fully supporting MSCI score.

Long-term dissolved oxygen data from station #2 indicate dissolved oxygen levels that were above the minimum of 5.0 mg/L required by the Water Quality Standards. Station #1, where dissolved oxygen levels fell below the 5.0 mg/L threshold during long-term data collection, had MSCI scores that were fully supporting during both seasons.

One possible difference between the two stations that could affect water temperature and ultimately dissolved oxygen is riparian cover. Station #1 had considerably less riparian cover than station #2, thus leaving station #1 less shaded and more vulnerable to warming during the summer. Station #1 only received a 2 of 20 for riparian zone width score on its habitat assessment whereas station #2 received a score of 17 of 20 for the same parameter.

Many low-gradient prairie streams in western Missouri such as Davis Creek lend themselves to lower levels of dissolved oxygen due to several factors. These streams

tend to be in less wooded areas with less riparian habitat providing shade, thus allowing for higher water temperatures and less dissolved oxygen compared to a shaded stream reach. Unlike higher gradient Ozark streams where surface water runs over coarse substrates that aerate the water, western Missouri prairie streams tend to have lower gradients with clay and silt substrates. These lower gradients and softer substrates do not provide the same level of aeration and these conditions also leave much more of the stream with slower moving or stagnant water. These slower flows can result in more organic deposition that can provide a demand on what oxygen is dissolved in the water.

Habitat assessments and measurements provide a mix of conclusions that can be drawn. The habitat assessment scores for the three Davis Creek stations fall above the 75% threshold when compared to the BIOREF habitat assessment score. In spite of these habitat assessment scores, instream habitat for the Davis Creek stations was very limited. Much of the stream substrate was predominantly silt and clay with little structure for macroinvertebrates to colonize. Stream habitat epifaunal substrate/available cover scores for both stations #2 and #3 were only 10%. In comparison both Davis Creek station #1 and the BIOREF station each had double the epifaunal substrate/available cover with scores at approximately 20%.

Channel measurements indicate little difference between Davis Creek stations and comparable BIOREF stations.

## **7.0 Conclusions**

Based on this study, no definitive conclusion on impairment can be made for Davis Creek. Although long-term monitoring at station #1 indicated that dissolved oxygen periodically fell below minimum WQS levels, it was the only station to attain a fully supporting MSCI during both sample seasons. Thus, it cannot necessarily be concluded that biological impairment is due to BOD. Although both stations within the formerly listed reach of Davis Creek had fully supporting MSCI scores in spring, only one station was fully supporting in fall. These results suggest that the biological supportability within the formerly listed reach is seasonally dependent.

## **8.0 Summary**

- The null hypothesis that macroinvertebrate assemblages are similar between Davis Creek and BIOREF streams in the same EDU is rejected.
- The null hypothesis that macroinvertebrate assemblages are similar among Davis Creek stations is accepted for the spring sampling season.
- The null hypothesis that macroinvertebrate assemblages are similar between the two sample seasons is rejected.
- The null hypothesis that habitat quality is similar among Davis Creek stations is accepted.
- The null hypothesis that habitat quality is similar between Davis Creek and biocriteria reference streams is accepted.

## 9.0 Literature Cited

Haithcoat, T.L., M.A. Urban, C.F. Rabeni, and K.E. Doisy. 2003. Biophysical evaluation of reference streams in Missouri: Final report for the Missouri Department of Natural Resources. University of Missouri-Columbia, Missouri 65211. 87 pp.

Missouri Department of Natural Resources. 2002. Biological Criteria for Wadeable/Perennial Streams of Missouri. Missouri Department of Natural Resources, Environmental Services Program, P.O. Box 176, Jefferson City, Missouri 65102. 32 pp.

Missouri Department of Natural Resources. 2003. Total Maximum Daily Load (TMDL) for Davis Creek, Lafayette County, Missouri. Missouri Department of Natural Resources, Water Pollution Control Program, P.O. Box 176, Jefferson City, Missouri 65102. 21 pp.

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Missouri Department of Natural Resources. 2010a. Stream Habitat Assessment Project Procedure (SHAPP). MDNR-ESP-032. Missouri Department of Natural Resources, Environmental Services Program, P.O. Box 176, Jefferson City, Missouri 65102. 40 pp.

Missouri Department of Natural Resources. 2010b. Field Measurement of Water Temperature. MDNR-ESP-101. Missouri Department of Natural Resources, Environmental Services Program, P.O. Box 176, Jefferson City, Missouri 65102. 2 pp.

Missouri Department of Natural Resources. 2010c. Field Analysis for Specific Conductance. MDNR-ESP-102. Missouri Department of Natural Resources, Environmental Services Program, P.O. Box 176, Jefferson City, Missouri 65102. 15 pp.

Missouri Department of Natural Resources. 2010d. Flow Measurement in Open Channels. Standard Operating Procedure MDNR-ESP-113. Missouri Department of Natural Resources, Environmental Services Program, P.O. Box 176, Jefferson City, Missouri 65102. 9 pp.

Missouri Department of Natural Resources. 2010e. Semi-quantitative Macroinvertebrate Stream Bioassessment Project Procedure. MDNR-ESP-030. Missouri Department of Natural Resources, Environmental Services Program, P.O. Box 176, Jefferson City, Missouri 65102. 24 pp.

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## **Appendix A**

Proposed Bioassessment Study Plan  
Davis Creek  
June 19, 2009

**Missouri Department of Natural Resources**  
**Bioassessment and Stressor Study Plan**  
**Davis Creek, Lafayette County**  
**June 19, 2009**

**Objective**

This study will characterize the macroinvertebrate communities in Davis Creek at three sites along its upper length including the two-mile segment formerly listed in the 2002 303(d) list as impaired. The objective of this study is to determine if aquatic macroinvertebrate life continues to be impaired and if so, attempt to identify potential stressors.

Null Hypotheses

- 1). Macroinvertebrate communities in Davis Creek will not differ significantly from macroinvertebrate communities in similar sized reaches of reference streams within the Central Plains/Blackwater/Lamine Ecological Drainage Unit (**EDU**).
- 2). Macroinvertebrate communities will not differ significantly between the three longitudinally separate reaches of Davis Creek.
- 3). Macroinvertebrate communities will not differ significantly between the two sample seasons.
- 4). Habitat conditions will not differ significantly between Davis Creek stations and the biological reference station.
- 5). Dissolved oxygen concentrations will be similar between stations and in acceptable levels throughout the day.

**Background**

Davis Creek begins just south of Odessa in southwest Lafayette County and flows predominantly east to its confluence with Blackwater River near Sweet Springs in southwest Saline County. A waste load allocation (**WLA**) study was performed on this segment of stream by the Water Quality Monitoring Section (**WQMS**) of the Environmental Services Program (**ESP**) of the Missouri Department of Natural Resources (**MDNR**) in the summer of 2008. Macroinvertebrate sampling was conducted by WQMS at two stations on upper Davis Creek during the spring sampling season of 1998 resulting in a “partially” sustainable Stream Condition Index (**SCI**) ranking at both stations.

Davis Creek was listed for Biochemical Oxygen Demand (**BOD**) and Nutrients as pollutants in the 2002 303(d) list for two-miles downstream of the Odessa wastewater

treatment plant (**WWTP**). In recent years, the city of Odessa has upgraded to a mechanical wastewater treatment system.

A Total Maximum Daily Load (**TMDL**) was written for Davis Creek by MDNR, Water Pollution Control Program (**WPCP**, now the Water Pollution Control Branch of the Water Protection Program, **WPCB** of **WPP**) in December 2000 and revised in August 2003 (MDNR 2003a).

### **Study Design**

**General:** Three Davis Creek stations will be surveyed. So far, four potential stations are selected. Stations 3 & 4 are planned and station 1 is preferred over station 2 pending landowner contact and permission. The four stations include, beginning downstream going upstream are:

- 1) Crossing at Oakland School Road, up or downstream. Geographic coordinates at this station are Grid 15, N 4314516, E 427052. (Pending landowner contact and permission)
- 2) Crossing just downstream of Weaver Road. Geographic coordinates at this station are Grid 15, N 4313867, E 424634.
- 3) On private property upstream of Highway M. Geographic coordinates at this station are Grid 15, N 4314361, E 422980.
- 4) Crossing just upstream of Starr School Road which is the most upstream station immediately downstream of the Odessa WWTP. Geographic coordinates at this station are Grid 15, N 4315253, 421891.

At each station, the length sampled will extend 20 times the average stream width as outlined in MDNR-WQMS-032 (MDNR 2003b). To assess comparability between sampling stations and reference streams, stream discharge, habitat assessment and water chemistry will be determined during macroinvertebrate surveys. Sampling will be conducted during the fall of 2009 (mid September through mid October) and the spring of 2010 (mid March through mid April).

**Biological Sampling Methods:** Macroinvertebrates will be sampled as per the guidelines of the Semi-Quantitative Macroinvertebrate Stream Bioassessment Project Procedure (**SMSBPP**) (MDNR 2003b). Davis Creek will be considered a “glide/pool” predominant stream; therefore samples will be collected from flow over depositional (non-flow), root-mat, and wood debris (snag) habitats. Each macroinvertebrate sample will be a composite of six subsamples, except for woody debris, which is a composite of twelve.

**Habitat Sampling Methods:** A standardized habitat procedure for Glide/Pool stream types will be followed in the Stream Habitat Assessment Project Procedure (**SHAPP**) guidelines of MDNR-FSS-032 (MDNR 2003c). Stream channel dimensions will also be

measured at each sampling station where a series of ten bank to bank transects will be established. Each transect will be equally spaced within the sampling reach, which was 20x the average width. Measurements taken at each transect will include lower bank width (see SHAPP for a definition of lower bank), wetted width, and water depth at 1/3, 1/2, and 2/3 of the distance across the wetted width. Similar habitat assessment and measurements will also be conducted during the same season at a biological reference station in the same EDU for comparison.

**Water Quality Sampling Methods:** Stream discharge will be measured at each sampling location using a Marsh-McBirney flow meter. Water samples from all sampled stations will be analyzed at the ESP laboratory for ammonia, nitrogen as  $\text{NO}_2 + \text{NO}_3$ , total nitrogen, total phosphorus, chloride and turbidity. Field measurements will include pH, conductivity, temperature, and dissolved oxygen.

In addition to the standard water quality parameters measured and analyzed for bioassessment studies, data-loggers will be deployed at two of the three Davis Creek stations to collect dissolved oxygen measurements throughout the day for an entire week during summer, low-flow conditions as part of the stressor portion of the study.

**Laboratory Methods:** All samples of macroinvertebrates will be processed and identified per MDNR-FSS-209, Taxonomic Levels for Macroinvertebrate Identification (MDNR 2005). Turbidity samples will be analyzed at the MDNR biological laboratory.

**Data Recording and Analyses:** Macroinvertebrate data will be entered in a Microsoft Access database in accordance with MDNR-WQMS-214, Quality Control Procedures for Data Processing (MDNR 2003d). Data analysis is automated within the Access database. Four standard metrics are calculated according to the SMSBPP: Total Taxa (TT); Ephemeroptera, Plecoptera, Trichoptera Taxa (EPTT); Biotic Index (BI); and the Shannon Index (SI) will be calculated for each reach.

Macroinvertebrate data will be analyzed in two ways. First, a longitudinal comparison between the three Davis Creek reaches will be performed. Secondly, the data from the Davis Creek sites will be compared to biological criteria from wadeable/perennial reference streams with similar geology and watershed size classification.

**Data Reporting:** Results of the study will be summarized and interpreted in report format.

**Quality Control:** As stated in the various MDNR Project Procedures and Standard Operating Procedures.

**References:**

Missouri Department of Natural Resources. 2003a. Total Maximum Daily Load (TMDL) for Davis Creek, Lafayette County, Missouri. Missouri Department of Natural Resources, Water Pollution Control Program, P.O. Box 176, Jefferson City, Missouri 65102. 21 pp.

Missouri Department of Natural Resources. 2003b. Semi-quantitative Macroinvertebrate Stream Bioassessment Project Procedure. MDNR-FSS-030. Missouri Department of Natural Resources, Environmental Services Program, P.O. Box 176, Jefferson City, Missouri 65102. 24 pp.

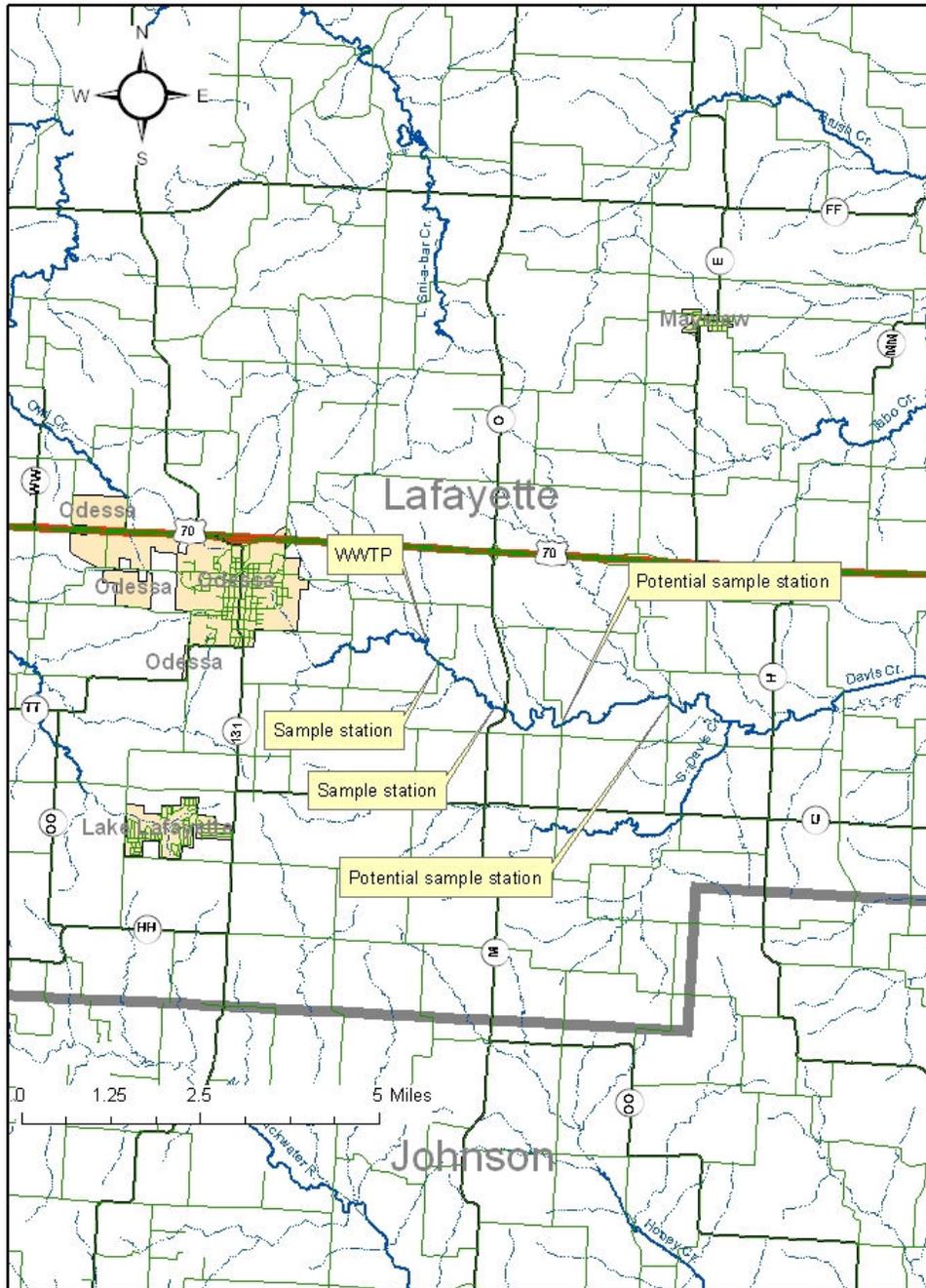
Missouri Department of Natural Resources. 2003c. Stream Habitat Assessment Project Procedure (SHAPP). MDNR-FSS-032. Missouri Department of Natural Resources, Environmental Services Program, P.O. Box 176, Jefferson City, Missouri 65102. 40 pp.

Missouri Department of Natural Resources. 2003d. Quality Control Procedures for Data Processing. MDNR-WQMS-214. Missouri Department of Natural Resources, Environmental Services Program, P. O. Box 176, Jefferson City, MO 65102. 6 pp.

Missouri Department of Natural Resources. 2005. Taxonomic Levels for Macroinvertebrate Identifications. MDNR-WQMS-209. Missouri Department of Natural Resources, Environmental Services Program, P. O. Box 176, Jefferson City, MO 65102. 30 pp.

## **Attachments**

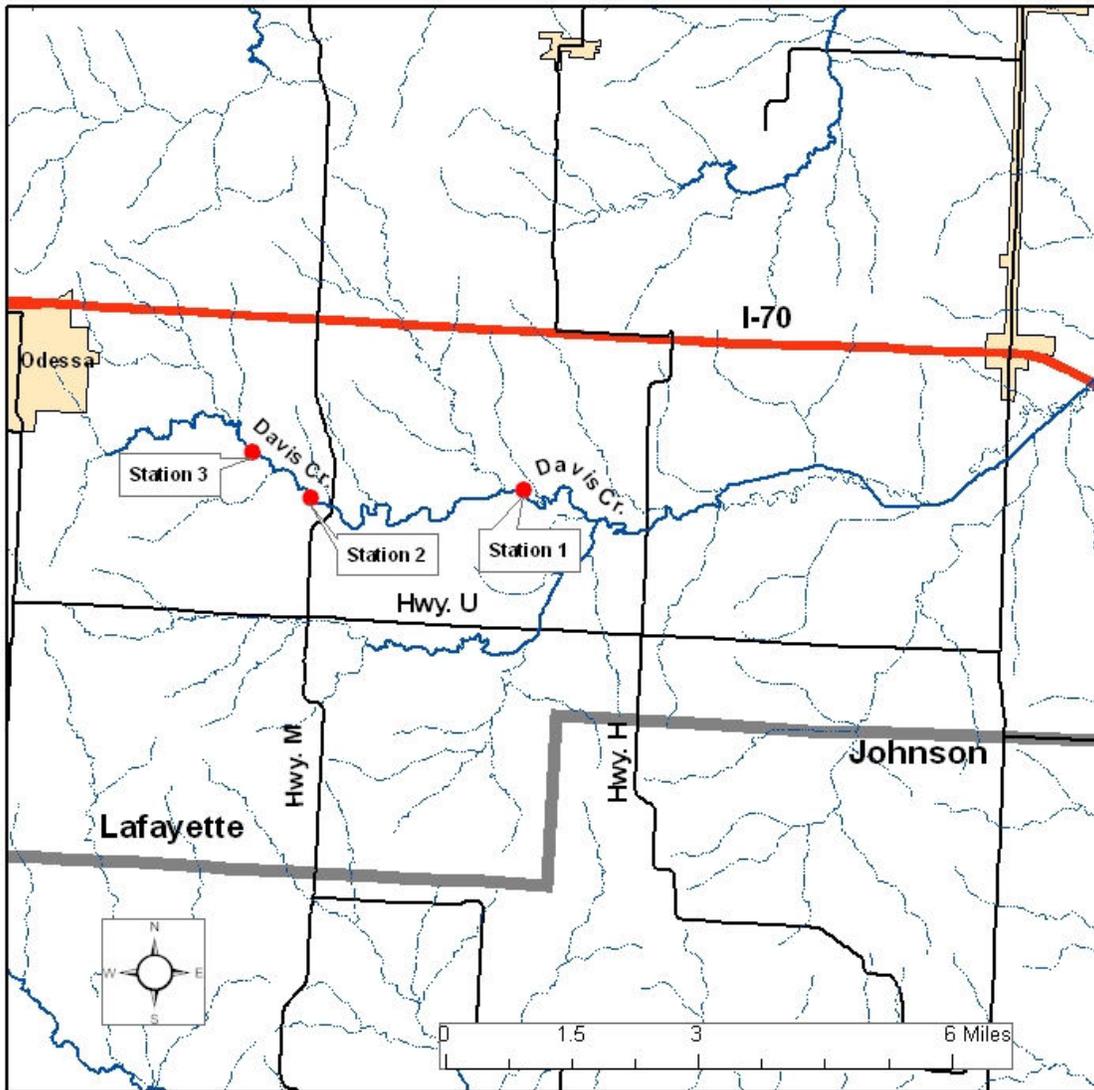
Map of sampling stations in this study



## **Appendix B**

Davis Creek Study Area Map

# Davis Creek FY 10 Bioassessment Study Area



|   |                               |
|---|-------------------------------|
| <span style="color: red;">●</span>  | Bioassessment Sites selection |
| <span style="color: blue;">—</span>   | Impaired Waters (2002)        |
| <span style="color: blue;">—</span>   | Classified Stream             |
| <span style="color: blue;">- - -</span>   | Unclassified Streams          |
| <span style="border-bottom: 1px solid black; width: 20px; display: inline-block;"></span> | Missouri Highway              |
| <span style="border-bottom: 2px solid red; width: 20px; display: inline-block;"></span>   | US Highway                    |
| <span style="border-bottom: 2px solid gray; width: 20px; display: inline-block;"></span>  | County Boundary               |

## Bioassessment Sampling Site Location

Ecological Drainage Unit (EDU) - An EDU is an area that contains a unique combination of habitats and organisms. Missouri is divided into 19 EDUs as shown in the inset map below. This site is located in the highlighted EDU.



Ecological Drainage Unit

## **Appendix C**

### Macroinvertebrate Bench Sheets

**Aquid Invertebrate Database Bench Sheet Report**  
**Davis Cr [0918460], Station #1, Sample Date: 9/15/2009 10:45:00 AM**  
**NF = Nonflow; RM = Rootmat; SG = Woody Debris; -99 = Presence**

| <b>ORDER: TAXA</b>         | <b>NF</b> | <b>RM</b> | <b>SG</b> |
|----------------------------|-----------|-----------|-----------|
| <b>"HYDRACARINA"</b>       |           |           |           |
| Acarina                    |           | 1         |           |
| <b>AMPHIPODA</b>           |           |           |           |
| Hyalella azteca            |           | 36        | 17        |
| <b>ARHYNCHOBDELLIDA</b>    |           |           |           |
| Erpobdellidae              |           | 1         |           |
| <b>COLEOPTERA</b>          |           |           |           |
| Berosus                    | 3         | 1         |           |
| Dubiraphia                 |           | 5         |           |
| Neoporus                   |           | 2         | 1         |
| Optioservus sandersoni     |           | 1         |           |
| Peltodytes                 |           |           | 1         |
| Scirtidae                  |           | 5         |           |
| Stenelmis                  | 2         |           |           |
| <b>DIPTERA</b>             |           |           |           |
| Ablabesmyia                | 9         | 11        | 8         |
| Ceratopogoninae            | 3         |           | 1         |
| Chironomidae               | 6         | 2         | 6         |
| Chironomus                 | 6         |           |           |
| Cladotanytarsus            | 12        | 1         |           |
| Cricotopus/Orthocladius    | 1         |           | 7         |
| Cryptochironomus           | 16        |           |           |
| Cryptotendipes             | 6         |           |           |
| Dicrotendipes              | 12        | 4         | 38        |
| Dixella                    |           | 1         |           |
| Forcipomyiinae             |           |           | 3         |
| Glyptotendipes             |           |           | 13        |
| Harnischia                 |           | 1         |           |
| Labrundinia                |           |           | 2         |
| Microtendipes              | 3         |           | 2         |
| Nanocladius                | 2         | 1         | 1         |
| Paratanytarsus             | 1         | 29        | 19        |
| Paratendipes               | 1         | 1         | 1         |
| Phaenopsectra              | 1         |           |           |
| Polypedilum aviceps        |           |           | 1         |
| Polypedilum halterale grp  | 3         |           |           |
| Polypedilum illinoense grp | 2         | 5         | 6         |
| Procladius                 | 9         | 4         | 1         |
| Pseudochironomus           | 40        |           | 25        |
| Stenochironomus            |           |           | 5         |
| Stictochironomus           | 2         |           |           |
| Tanytarsus                 | 69        | 5         | 36        |
| Thienemannimyia grp.       |           |           | 17        |
| <b>EPHEMEROPTERA</b>       |           |           |           |
| Caenis latipennis          | 33        | 4         | 2         |
| Heptageniidae              | 1         |           |           |
| Stenacron                  |           |           | 5         |
| <b>HEMIPTERA</b>           |           |           |           |

**Aquid Invertebrate Database Bench Sheet Report**  
**Davis Cr [0918460], Station #1, Sample Date: 9/15/2009 10:45:00 AM**  
**NF = Nonflow; RM = Rootmat; SG = Woody Debris; -99 = Presence**

| <b>ORDER: TAXA</b>     | <b>NF</b> | <b>RM</b> | <b>SG</b> |
|------------------------|-----------|-----------|-----------|
| Ranatra nigra          |           | -99       |           |
| Veliidae               |           |           | 2         |
| <b>LIMNOPHILA</b>      |           |           |           |
| Ancylidae              | 11        | 7         | 14        |
| Menetus                |           | 10        |           |
| Physella               | 2         | 86        | 39        |
| <b>ODONATA</b>         |           |           |           |
| Argia                  |           | 5         | 1         |
| Enallagma              |           | 94        |           |
| <b>RHYNCHOBDELLIDA</b> |           |           |           |
| Piscicolidae           | 1         |           |           |
| <b>TRICHOPTERA</b>     |           |           |           |
| Hydroptila             |           |           | 3         |
| Nyctiophylax           |           |           | 3         |
| <b>TRICLADIDA</b>      |           |           |           |
| Planariidae            |           | 2         |           |
| <b>TUBIFICIDA</b>      |           |           |           |
| Tubificidae            | 29        | 2         | 2         |
| <b>VENEROIDA</b>       |           |           |           |
| Pisidiidae             |           | 2         |           |

**Aquid Invertebrate Database Bench Sheet Report****Davis Cr [0918461], Station #2, Sample Date: 9/15/2009 1:35:00 PM****NF = Nonflow; RM = Rootmat; SG = Woody Debris; -99 = Presence**

| <b>ORDER: TAXA</b>         | <b>NF</b> | <b>RM</b> | <b>SG</b> |
|----------------------------|-----------|-----------|-----------|
| <b>AMPHIPODA</b>           |           |           |           |
| Hyaella azteca             |           | 11        | 2         |
| <b>ARHYNCHOBDELLIDA</b>    |           |           |           |
| Erpobdellidae              | -99       |           | -99       |
| <b>COLEOPTERA</b>          |           |           |           |
| Dubiraphia                 |           | 1         |           |
| Stenelmis                  | 2         | 2         | 1         |
| <b>DIPTERA</b>             |           |           |           |
| Ablabesmyia                | 37        | 11        | 17        |
| Ceratopogoninae            | 1         |           |           |
| Chironomidae               | 2         | 2         | 3         |
| Cladotanytarsus            | 1         |           |           |
| Corynoneura                | 1         | 2         | 1         |
| Cricotopus/Orthocladus     |           |           | 1         |
| Cryptochironomus           | 13        |           |           |
| Dicrotendipes              | 38        | 11        | 91        |
| Forcipomyiinae             |           |           | 2         |
| Glyptotendipes             | 5         | 7         | 38        |
| Labrundinia                |           | 1         |           |
| Microtendipes              | 6         |           | 3         |
| Nanocladus                 |           | 7         | 1         |
| Nilotanypus                |           | 1         |           |
| Paracladopelma             | 3         |           |           |
| Paralauterborniella        | 2         |           |           |
| Paratanytarsus             | 10        | 61        | 11        |
| Paratendipes               | 6         |           |           |
| Phaenopsectra              | 1         |           | 1         |
| Polypedilum convictum      |           |           | 1         |
| Polypedilum fallax grp     |           |           | 2         |
| Polypedilum halterale grp  | 4         |           | 2         |
| Polypedilum illinoense grp |           |           | 4         |
| Polypedilum scalaenum grp  | 1         |           |           |
| Procladius                 | 3         |           | 1         |
| Pseudochironomus           | 1         |           |           |
| Stenochironomus            |           |           | 43        |
| Tanytarsus                 | 58        | 31        | 70        |
| Thienemannimyia grp.       |           | 2         | 7         |
| Tribelos                   |           |           | 3         |
| <b>EPHEMEROPTERA</b>       |           |           |           |
| Baetis                     | 1         |           | 1         |
| Caenis hilaris             | 1         |           |           |
| Caenis latipennis          | 64        | 16        | 23        |
| Stenacron                  |           | 1         | 3         |
| Stenonema femoratum        |           |           | 1         |
| <b>HEMIPTERA</b>           |           |           |           |
| Microvelia                 |           |           | 1         |
| Trepobates                 |           |           | 2         |
| <b>LIMNOPHILA</b>          |           |           |           |

**Aquid Invertebrate Database Bench Sheet Report****Davis Cr [0918461], Station #2, Sample Date: 9/15/2009 1:35:00 PM****NF = Nonflow; RM = Rootmat; SG = Woody Debris; -99 = Presence**

| <b>ORDER: TAXA</b> | <b>NF</b> | <b>RM</b> | <b>SG</b> |
|--------------------|-----------|-----------|-----------|
| Ancylidae          | 1         |           |           |
| Menetus            | 1         | 20        |           |
| Physella           | 3         | 99        | 2         |
| <b>ODONATA</b>     |           |           |           |
| Argia              |           | 16        | 8         |
| Enallagma          |           | 29        |           |
| Ischnura           |           | 3         |           |
| <b>TUBIFICIDA</b>  |           |           |           |
| Enchytraeidae      | 1         |           |           |
| Tubificidae        | 18        |           | 3         |
| <b>VENEROIDA</b>   |           |           |           |
| Pisidiidae         | 1         |           |           |

**Aquid Invertebrate Database Bench Sheet Report****Davis Cr [0918462], Station #3, Sample Date: 9/15/2009 4:20:00 PM****NF = Nonflow; RM = Rootmat; SG = Woody Debris; -99 = Presence**

| <b>ORDER: TAXA</b>         | <b>NF</b> | <b>RM</b> | <b>SG</b> |
|----------------------------|-----------|-----------|-----------|
| <b>AMPHIPODA</b>           |           |           |           |
| Gammarus                   | 4         |           |           |
| Hyaella azteca             |           | 19        | 2         |
| <b>ARHYNCHOBDELLIDA</b>    |           |           |           |
| Erpobdellidae              |           | 1         |           |
| <b>COLEOPTERA</b>          |           |           |           |
| Dubiraphia                 |           | 1         |           |
| Stenelmis                  | 9         | 4         |           |
| <b>DIPTERA</b>             |           |           |           |
| Ablabesmyia                | 34        | 15        | 51        |
| Axarus                     | 1         |           |           |
| Ceratopogoninae            | 1         |           | 3         |
| Chironomidae               | 4         |           | 1         |
| Chironomus                 | 2         |           |           |
| Cladotanytarsus            | 4         |           |           |
| Cricotopus/Orthocladius    |           |           | 1         |
| Cryptochironomus           | 14        |           |           |
| Cryptotendipes             | 7         |           |           |
| Dicrotendipes              | 56        | 2         | 61        |
| Glyptotendipes             | 3         | 1         | 25        |
| Microtendipes              | 7         | 1         | 1         |
| Nanocladius                |           | 6         | 1         |
| Nilothauma                 | 1         |           |           |
| Paracladopelma             | 1         |           |           |
| Paratanytarsus             | 13        | 29        | 27        |
| Phaenopsectra              | 4         | 1         | 1         |
| Polypedilum fallax grp     |           |           | 1         |
| Polypedilum halterale grp  | 2         |           |           |
| Polypedilum illinoense grp |           |           | 1         |
| Polypedilum scalaenum grp  |           | 1         |           |
| Procladius                 | 3         |           |           |
| Pseudosmittia              |           |           | 1         |
| Stenochironomus            | 1         |           | 44        |
| Stictochironomus           | 3         |           |           |
| Tanytarsus                 | 67        | 15        | 58        |
| Thienemanniella            | 2         |           |           |
| Thienemannimyia grp.       | 1         | 3         | 7         |
| Tipula                     |           |           | 2         |
| Tribelos                   | 1         |           |           |
| <b>EPHEMEROPTERA</b>       |           |           |           |
| Baetis                     |           | 1         |           |
| Caenis latipennis          | 31        | 8         | 8         |
| Stenacron                  |           | 2         | 2         |
| <b>HEMIPTERA</b>           |           |           |           |
| Microvelia                 |           | 3         | 1         |
| <b>LIMNOPHILA</b>          |           |           |           |
| Ancylidae                  |           | 1         |           |
| Menetus                    | 1         | 66        | 1         |

**Aquid Invertebrate Database Bench Sheet Report**  
**Davis Cr [0918462], Station #3, Sample Date: 9/15/2009 4:20:00 PM**  
**NF = Nonflow; RM = Rootmat; SG = Woody Debris; -99 = Presence**

| <b>ORDER: TAXA</b> | <b>NF</b> | <b>RM</b> | <b>SG</b> |
|--------------------|-----------|-----------|-----------|
| Physella           |           | 36        | 8         |
| <b>ODONATA</b>     |           |           |           |
| Argia              | 2         | 8         | 4         |
| Enallagma          |           | 35        |           |
| Ischnura           |           | 3         |           |
| Somatochlora       |           | -99       |           |
| <b>TRICLADIDA</b>  |           |           |           |
| Planariidae        |           | 1         |           |
| <b>TUBIFICIDA</b>  |           |           |           |
| Enchytraeidae      |           | 1         | 2         |
| Tubificidae        | 7         | 1         |           |

**Aquid Invertebrate Database Bench Sheet Report**

**Davis Cr [1004031], Station #1, Sample Date: 4/1/2010 9:05:00 AM**

**NF = Nonflow; RM = Rootmat; SG = Woody Debris; -99 = Presence**

| <b>ORDER: TAXA</b>         | <b>NF</b> | <b>RM</b> | <b>SG</b> |
|----------------------------|-----------|-----------|-----------|
| "HYDRACARINA"              |           |           |           |
| Acarina                    | 1         |           |           |
| AMPHIPODA                  |           |           |           |
| Crangonyx                  |           | 4         |           |
| Hyalella azteca            |           | 3         | 3         |
| ARHYNCHOBDELLIDA           |           |           |           |
| Erpobdellidae              | -99       | 1         |           |
| COLEOPTERA                 |           |           |           |
| Berosus                    |           |           | 1         |
| Stenelmis                  | 9         | 4         |           |
| DIPTERA                    |           |           |           |
| Ablabesmyia                | 7         | 2         |           |
| Caloparyphus               | 1         |           |           |
| Ceratopogoninae            | 1         | 3         |           |
| Chaoborus                  |           |           | 1         |
| Chironomidae               | 2         |           | 1         |
| Chrysops                   | 1         |           |           |
| Corynoneura                |           | 2         |           |
| Cricotopus bicinctus       |           | 1         |           |
| Cricotopus/Orthocladus     | 2         | 7         | 27        |
| Cryptochironomus           | 29        |           | 1         |
| Cryptotendipes             | 5         |           |           |
| Dicrotendipes              | 9         | 9         | 81        |
| Diptera                    | 2         | 1         |           |
| Ephydriidae                | 1         |           |           |
| Glyptotendipes             | 1         | 2         | 10        |
| Hydrobaenus                | 7         | 3         | 8         |
| Labrundinia                |           | 1         |           |
| Microtendipes              | 3         |           | 1         |
| Nanocladus                 |           | 2         |           |
| Paralauterborniella        | 1         |           |           |
| Paratanytarsus             | 3         | 75        | 31        |
| Paratendipes               | 2         |           |           |
| Phaenopsectra              | 6         | 3         | 10        |
| Polypedilum aviceps        |           | 3         |           |
| Polypedilum fallax grp     |           |           | 2         |
| Polypedilum halterale grp  | 20        |           |           |
| Polypedilum illinoense grp |           | 4         |           |
| Polypedilum scalaenum grp  | 13        |           |           |
| Pseudochironomus           | 13        |           | 25        |
| Pseudosmittia              |           | 1         |           |
| Rheotanytarsus             |           | 2         | 1         |
| Simulium                   |           | 4         |           |
| Stenochironomus            |           |           | 5         |
| Stictochironomus           | 3         |           |           |
| Tanytarsus                 | 11        | 37        | 13        |
| Thienemanniella            | 1         | 2         |           |
| Thienemannimyia grp.       | 6         | 21        | 18        |

**Aquid Invertebrate Database Bench Sheet Report**  
**Davis Cr [1004031], Station #1, Sample Date: 4/1/2010 9:05:00 AM**  
**NF = Nonflow; RM = Rootmat; SG = Woody Debris; -99 = Presence**

| <b>ORDER: TAXA</b>        | <b>NF</b> | <b>RM</b> | <b>SG</b> |
|---------------------------|-----------|-----------|-----------|
| Tipula                    |           | -99       |           |
| Zavreliomyia              | 1         |           |           |
| <b>EPHEMEROPTERA</b>      |           |           |           |
| Caenis latipennis         | 29        | 118       | 74        |
| Callibaetis               |           | 1         |           |
| Stenacron                 | 1         | 1         | 1         |
| Stenonema femoratum       |           | 1         | 1         |
| <b>HEMIPTERA</b>          |           |           |           |
| Microvelia                |           | 7         |           |
| <b>LEPIDOPTERA</b>        |           |           |           |
| Crambidae                 | -99       |           |           |
| <b>LIMNOPHILA</b>         |           |           |           |
| Ancylidae                 | 9         | 3         | 3         |
| Lymnaeidae                | 2         |           |           |
| Menetus                   | 1         |           |           |
| Physella                  |           | 2         | 2         |
| <b>LUMBRICINA</b>         |           |           |           |
| Lumbricina                | 1         | 1         |           |
| <b>ODONATA</b>            |           |           |           |
| Argia                     |           | 2         | 1         |
| Calopteryx                |           | 1         | 1         |
| Enallagma                 |           | 1         |           |
| Ischnura                  |           | 1         |           |
| <b>TRICHOPTERA</b>        |           |           |           |
| Cheumatopsyche            | 1         | 8         | 2         |
| Isonychia                 | 1         | 9         |           |
| Nyctiophylax              |           |           | 2         |
| <b>TRICLADIDA</b>         |           |           |           |
| Planariidae               | 1         |           |           |
| <b>TUBIFICIDA</b>         |           |           |           |
| Enchytraeidae             | 3         | 1         |           |
| Limnodrilus claparedianus | 5         |           |           |
| Limnodrilus hoffmeisteri  | 32        |           |           |
| Limnodrilus udekemianus   | 1         |           |           |
| Tubificidae               | 63        |           | 1         |
| <b>VENEROIDA</b>          |           |           |           |
| Pisidiidae                | 6         |           |           |

**Aquid Invertebrate Database Bench Sheet Report**

**Davis Cr [1004032], Station #2, Sample Date: 4/1/2010 11:00:00 AM**

**NF = Nonflow; RM = Rootmat; SG = Woody Debris; -99 = Presence**

| <b>ORDER: TAXA</b>         | <b>NF</b> | <b>RM</b> | <b>SG</b> |
|----------------------------|-----------|-----------|-----------|
| <b>AMPHIPODA</b>           |           |           |           |
| Crangonyx                  | 4         | 8         |           |
| Hyaella azteca             |           | 44        | 1         |
| <b>ARHYNCHOBDELLIDA</b>    |           |           |           |
| Erpobdellidae              | 2         | 2         |           |
| <b>COLEOPTERA</b>          |           |           |           |
| Dubiraphia                 | 1         |           |           |
| Dytiscidae                 | 1         |           |           |
| Stenelmis                  | 3         | 2         |           |
| <b>DIPTERA</b>             |           |           |           |
| Ablabesmyia                | 1         | 1         |           |
| Allognosta                 |           | 1         |           |
| Antocha                    |           |           | 1         |
| Ceratopogoninae            | 3         |           |           |
| Chironomidae               | 4         | 1         | 1         |
| Chironomus                 | 1         |           |           |
| Cladotanytarsus            | 9         |           |           |
| Corynoneura                |           | 1         |           |
| Cricotopus bicinctus       | 1         |           |           |
| Cricotopus/Orthocladus     | 5         | 21        | 47        |
| Cryptochironomus           | 29        |           |           |
| Cryptotendipes             | 9         |           |           |
| Dasyheleinae               |           |           | 1         |
| Dicrotendipes              | 12        | 15        | 108       |
| Diptera                    | 3         |           |           |
| Ephydriidae                | 1         |           |           |
| Glyptotendipes             |           | 4         | 13        |
| Hydrobaenus                | 31        |           | 2         |
| Limnophyes                 | 1         | 1         |           |
| Microtendipes              | 1         | 4         | 1         |
| Nanocladus                 |           | 1         |           |
| Nilotanypus                |           | 1         |           |
| Paralauterborniella        | 2         |           |           |
| Paratanytarsus             |           | 28        | 10        |
| Paratendipes               | 10        |           |           |
| Pericoma                   | 1         |           |           |
| Phaenopsectra              |           | 9         | 3         |
| Polypedilum aviceps        | 1         |           | 2         |
| Polypedilum fallax grp     |           |           | 1         |
| Polypedilum halterale grp  | 24        |           | 2         |
| Polypedilum illinoense grp | 8         | 1         | 1         |
| Polypedilum scalaenum grp  | 16        |           | 1         |
| Pseudochironomus           |           |           | 1         |
| Pseudosmittia              | 2         |           |           |
| Stenochironomus            |           | 1         | 14        |
| Stictochironomus           | 18        |           |           |
| Tanytarsus                 | 25        | 52        | 38        |
| Thienemanniella            | 2         |           |           |

**Aquid Invertebrate Database Bench Sheet Report**  
**Davis Cr [1004032], Station #2, Sample Date: 4/1/2010 11:00:00 AM**  
**NF = Nonflow; RM = Rootmat; SG = Woody Debris; -99 = Presence**

| <b>ORDER: TAXA</b>        | <b>NF</b> | <b>RM</b> | <b>SG</b> |
|---------------------------|-----------|-----------|-----------|
| Thienemannimyia grp.      | 6         | 16        | 13        |
| Zavreliomyia              |           | 5         |           |
| <b>EPHEMEROPTERA</b>      |           |           |           |
| Caenis latipennis         | 35        | 93        | 16        |
| Callibaetis               |           | 1         |           |
| Stenacron                 |           | 2         | 3         |
| Stenonema femoratum       |           |           | -99       |
| <b>HEMIPTERA</b>          |           |           |           |
| Belostoma                 |           | -99       |           |
| <b>LIMNOPHILA</b>         |           |           |           |
| Ancylidae                 | 1         |           | 1         |
| Lymnaeidae                | 2         |           |           |
| Menetus                   | 1         | 1         |           |
| Physella                  | 1         | 3         | 3         |
| <b>ODONATA</b>            |           |           |           |
| Argia                     |           | 2         | 1         |
| Calopteryx                |           | 2         |           |
| Enallagma                 |           | 16        |           |
| Ischnura                  |           | 1         |           |
| <b>TRICHOPTERA</b>        |           |           |           |
| Cheumatopsyche            | 1         | 4         | 10        |
| Isonychia                 |           | 3         |           |
| <b>TUBIFICIDA</b>         |           |           |           |
| Enchytraeidae             | 2         | 1         | 1         |
| Limnodrilus claparedianus | 10        |           |           |
| Limnodrilus hoffmeisteri  | 6         |           |           |
| Tubificidae               | 28        |           | 1         |
| <b>VENEROIDA</b>          |           |           |           |
| Pisidiidae                | 11        |           |           |

**Aquid Invertebrate Database Bench Sheet Report**

**Davis Cr [1004033], Station #3, Sample Date: 4/1/2010 12:15:00 PM**

**NF = Nonflow; RM = Rootmat; SG = Woody Debris; -99 = Presence**

| <b>ORDER: TAXA</b>         | <b>NF</b> | <b>RM</b> | <b>SG</b> |
|----------------------------|-----------|-----------|-----------|
| <b>AMPHIPODA</b>           |           |           |           |
| Crangonyx                  |           | 24        |           |
| Hyaella azteca             | 4         | 9         |           |
| <b>COLEOPTERA</b>          |           |           |           |
| Dubiraphia                 | 1         | 1         |           |
| Neoporus                   |           | 1         |           |
| Stenelmis                  | 10        | 1         |           |
| <b>DECAPODA</b>            |           |           |           |
| Orconectes virilis         |           | 1         |           |
| <b>DIPTERA</b>             |           |           |           |
| Ablabesmyia                | 13        |           |           |
| Ceratopogoninae            | 2         | 1         |           |
| Chironomidae               | 5         |           | 5         |
| Cladotanytarsus            | 5         |           |           |
| Cricotopus bicinctus       |           | 1         | 1         |
| Cricotopus/Orthocladius    | 25        | 38        | 109       |
| Cryptochironomus           | 34        |           |           |
| Cryptotendipes             | 1         |           |           |
| Dicrotendipes              | 19        | 7         | 105       |
| Diplocladius               | 1         | 1         | 1         |
| Eukiefferiella             |           |           | 1         |
| Glyptotendipes             | 4         |           | 4         |
| Hydrobaenus                | 46        | 2         | 21        |
| Microtendipes              | 3         | 1         |           |
| Nilotanypus                |           |           | 1         |
| Parametriocnemus           |           | 1         |           |
| Paratanytarsus             | 2         | 3         | 22        |
| Paratendipes               | 6         |           |           |
| Phaenopsectra              | 1         |           | 6         |
| Polypedilum aviceps        | 1         | 3         | 10        |
| Polypedilum fallax grp     |           |           | 3         |
| Polypedilum halterale grp  | 12        |           |           |
| Polypedilum illinoense grp |           |           | 4         |
| Polypedilum scalaenum grp  | 11        |           | 1         |
| Procladius                 | 1         |           |           |
| Simulium                   |           | 1         |           |
| Stictochironomus           | 18        | 2         | 1         |
| Tanytarsus                 | 10        | 31        | 68        |
| Thienemannimyia grp.       | 2         | 19        | 10        |
| Zavrelimyia                | 3         |           |           |
| <b>EPHEMEROPTERA</b>       |           |           |           |
| Caenis latipennis          | 42        | 44        | 4         |
| Stenonema femoratum        |           |           | -99       |
| <b>LIMNOPHILA</b>          |           |           |           |
| Menetus                    |           | 1         |           |
| Physella                   |           | 1         | 2         |
| <b>LUMBRICINA</b>          |           |           |           |
| Lumbricina                 | 2         |           |           |

**Aquid Invertebrate Database Bench Sheet Report**  
**Davis Cr [1004033], Station #3, Sample Date: 4/1/2010 12:15:00 PM**  
**NF = Nonflow; RM = Rootmat; SG = Woody Debris; -99 = Presence**

| <b>ORDER: TAXA</b>        | <b>NF</b> | <b>RM</b> | <b>SG</b> |
|---------------------------|-----------|-----------|-----------|
| <b>ODONATA</b>            |           |           |           |
| Argia                     |           | 1         |           |
| Nasiaeschna pentacantha   |           | 1         |           |
| <b>RHYNCHOBDELLIDA</b>    |           |           |           |
| Glossiphoniidae           | 1         | 1         | -99       |
| <b>TRICHOPTERA</b>        |           |           |           |
| Cheumatopsyche            | 2         | 21        | 1         |
| Ironoquia                 |           | 8         |           |
| Pycnopsyche               |           | 1         | 2         |
| <b>TUBIFICIDA</b>         |           |           |           |
| Enchytraeidae             | 3         |           | 1         |
| Limnodrilus claparedianus | 4         |           |           |
| Limnodrilus hoffmeisteri  | 6         |           |           |
| Tubificidae               | 31        |           | 1         |
| <b>VENEROIDA</b>          |           |           |           |
| Pisidiidae                | 8         |           | 1         |

## **Appendix D**

Dissolved Oxygen and Specific Conductance Datalogger Results

| Station | Date      | Time     | Temperature °C | Sp.Cond<br>µs/cm | oDO<br>mg/L |
|---------|-----------|----------|----------------|------------------|-------------|
| 1       | 8/12/2009 | 14:45:00 | 24.11          | 235              | 6.62        |
| 1       | 8/12/2009 | 15:00:00 | 24.4           | 235              | 6.49        |
| 1       | 8/12/2009 | 15:15:00 | 24.5           | 235              | 6.41        |
| 1       | 8/12/2009 | 15:30:00 | 24.51          | 236              | 6.46        |
| 1       | 8/12/2009 | 15:45:00 | 24.46          | 235              | 6.21        |
| 1       | 8/12/2009 | 16:00:00 | 24.4           | 235              | 6.34        |
| 1       | 8/12/2009 | 16:15:00 | 24.58          | 235              | 6.38        |
| 1       | 8/12/2009 | 16:30:00 | 24.62          | 235              | 6.37        |
| 1       | 8/12/2009 | 16:45:00 | 24.68          | 235              | 6.45        |
| 1       | 8/12/2009 | 17:00:00 | 24.61          | 235              | 6.45        |
| 1       | 8/12/2009 | 17:15:00 | 24.59          | 235              | 6.41        |
| 1       | 8/12/2009 | 17:30:00 | 24.69          | 236              | 6.3         |
| 1       | 8/12/2009 | 17:45:00 | 24.68          | 236              | 6.03        |
| 1       | 8/12/2009 | 18:00:00 | 24.73          | 236              | 6.02        |
| 1       | 8/12/2009 | 18:15:00 | 24.64          | 237              | 5.99        |
| 1       | 8/12/2009 | 18:30:00 | 24.64          | 237              | 5.96        |
| 1       | 8/12/2009 | 18:45:00 | 24.75          | 237              | 5.94        |
| 1       | 8/12/2009 | 19:00:00 | 24.75          | 237              | 5.82        |
| 1       | 8/12/2009 | 19:15:00 | 24.83          | 238              | 5.73        |
| 1       | 8/12/2009 | 19:30:00 | 24.63          | 238              | 5.72        |
| 1       | 8/12/2009 | 19:45:00 | 24.66          | 238              | 5.69        |
| 1       | 8/12/2009 | 20:00:00 | 24.77          | 239              | 5.64        |
| 1       | 8/12/2009 | 20:15:00 | 24.76          | 240              | 5.55        |
| 1       | 8/12/2009 | 20:30:00 | 24.84          | 243              | 5.5         |
| 1       | 8/12/2009 | 20:45:00 | 24.82          | 241              | 5.55        |
| 1       | 8/12/2009 | 21:00:00 | 24.8           | 244              | 5.38        |
| 1       | 8/12/2009 | 21:15:00 | 24.84          | 242              | 5.36        |
| 1       | 8/12/2009 | 21:30:00 | 24.84          | 241              | 5.31        |
| 1       | 8/12/2009 | 21:45:00 | 24.86          | 240              | 5.31        |
| 1       | 8/12/2009 | 22:00:00 | 24.88          | 241              | 5.42        |
| 1       | 8/12/2009 | 22:15:00 | 24.96          | 242              | 5.42        |
| 1       | 8/12/2009 | 22:30:00 | 25.06          | 243              | 5.19        |
| 1       | 8/12/2009 | 22:45:00 | 25.13          | 244              | 5.04        |
| 1       | 8/12/2009 | 23:00:00 | 25.16          | 244              | 4.84        |
| 1       | 8/12/2009 | 23:15:00 | 25.7           | 241              | 5.5         |
| 1       | 8/12/2009 | 23:30:00 | 25.83          | 245              | 5.81        |
| 1       | 8/12/2009 | 23:45:00 | 26             | 244              | 5.78        |
| 1       | 8/13/2009 | 0:00:00  | 25.88          | 244              | 5.75        |
| 1       | 8/13/2009 | 0:15:00  | 25.78          | 245              | 5.69        |
| 1       | 8/13/2009 | 0:30:00  | 25.76          | 245              | 5.64        |
| 1       | 8/13/2009 | 0:45:00  | 25.65          | 245              | 5.62        |
| 1       | 8/13/2009 | 1:00:00  | 25.62          | 246              | 5.55        |
| 1       | 8/13/2009 | 1:15:00  | 25.52          | 246              | 5.5         |
| 1       | 8/13/2009 | 1:30:00  | 25.46          | 246              | 5.5         |
| 1       | 8/13/2009 | 1:45:00  | 25.43          | 246              | 5.49        |

| Station | Date      | Time     | Temperature °C | Sp.Cond<br>µs/cm | oDO<br>mg/L |
|---------|-----------|----------|----------------|------------------|-------------|
| 1       | 8/13/2009 | 2:00:00  | 25.34          | 246              | 5.44        |
| 1       | 8/13/2009 | 2:15:00  | 25.31          | 247              | 5.39        |
| 1       | 8/13/2009 | 2:30:00  | 25.25          | 247              | 5.38        |
| 1       | 8/13/2009 | 2:45:00  | 25.2           | 247              | 5.35        |
| 1       | 8/13/2009 | 3:00:00  | 25.13          | 247              | 5.32        |
| 1       | 8/13/2009 | 3:15:00  | 25.05          | 248              | 5.28        |
| 1       | 8/13/2009 | 3:30:00  | 24.97          | 248              | 5.27        |
| 1       | 8/13/2009 | 3:45:00  | 24.89          | 248              | 5.22        |
| 1       | 8/13/2009 | 4:00:00  | 24.81          | 249              | 5.22        |
| 1       | 8/13/2009 | 4:15:00  | 24.75          | 249              | 5.15        |
| 1       | 8/13/2009 | 4:30:00  | 24.65          | 249              | 5.13        |
| 1       | 8/13/2009 | 4:45:00  | 24.58          | 249              | 5.18        |
| 1       | 8/13/2009 | 5:00:00  | 24.51          | 249              | 5.11        |
| 1       | 8/13/2009 | 5:15:00  | 24.46          | 250              | 5.1         |
| 1       | 8/13/2009 | 5:30:00  | 24.33          | 250              | 4.96        |
| 1       | 8/13/2009 | 5:45:00  | 24.25          | 250              | 5.03        |
| 1       | 8/13/2009 | 6:00:00  | 24.17          | 250              | 5.05        |
| 1       | 8/13/2009 | 6:15:00  | 24.08          | 250              | 5.1         |
| 1       | 8/13/2009 | 6:30:00  | 24.01          | 250              | 5.06        |
| 1       | 8/13/2009 | 6:45:00  | 23.94          | 251              | 4.97        |
| 1       | 8/13/2009 | 7:00:00  | 23.9           | 251              | 4.92        |
| 1       | 8/13/2009 | 7:15:00  | 23.85          | 251              | 4.85        |
| 1       | 8/13/2009 | 7:30:00  | 23.75          | 251              | 4.93        |
| 1       | 8/13/2009 | 7:45:00  | 23.73          | 251              | 4.95        |
| 1       | 8/13/2009 | 8:00:00  | 23.68          | 252              | 4.9         |
| 1       | 8/13/2009 | 8:15:00  | 23.62          | 252              | 5.01        |
| 1       | 8/13/2009 | 8:30:00  | 23.56          | 252              | 5.03        |
| 1       | 8/13/2009 | 8:45:00  | 23.56          | 252              | 5           |
| 1       | 8/13/2009 | 9:00:00  | 23.52          | 252              | 5.02        |
| 1       | 8/13/2009 | 9:15:00  | 23.53          | 252              | 4.99        |
| 1       | 8/13/2009 | 9:30:00  | 23.64          | 252              | 5.05        |
| 1       | 8/13/2009 | 9:45:00  | 23.58          | 253              | 5.25        |
| 1       | 8/13/2009 | 10:00:00 | 23.57          | 253              | 5.1         |
| 1       | 8/13/2009 | 10:15:00 | 23.63          | 254              | 5           |
| 1       | 8/13/2009 | 10:30:00 | 23.64          | 253              | 4.97        |
| 1       | 8/13/2009 | 10:45:00 | 23.68          | 253              | 5.03        |
| 1       | 8/13/2009 | 11:00:00 | 23.83          | 254              | 5.09        |
| 1       | 8/13/2009 | 11:15:00 | 24.08          | 254              | 5.22        |
| 1       | 8/13/2009 | 11:30:00 | 23.9           | 255              | 5.15        |
| 1       | 8/13/2009 | 11:45:00 | 23.99          | 256              | 5.14        |
| 1       | 8/13/2009 | 12:00:00 | 24.09          | 255              | 5.12        |
| 1       | 8/13/2009 | 12:15:00 | 24.18          | 255              | 5.12        |
| 1       | 8/13/2009 | 12:30:00 | 24.23          | 256              | 5.15        |
| 1       | 8/13/2009 | 12:45:00 | 24.38          | 256              | 5.15        |
| 1       | 8/13/2009 | 13:00:00 | 24.5           | 255              | 5.19        |
| 1       | 8/13/2009 | 13:15:00 | 24.53          | 256              | 5.2         |

| Station | Date      | Time     | Temperature °C | Sp.Cond<br>µs/cm | oDO<br>mg/L |
|---------|-----------|----------|----------------|------------------|-------------|
| 1       | 8/13/2009 | 13:30:00 | 24.26          | 256              | 5.02        |
| 1       | 8/13/2009 | 13:45:00 | 24.38          | 256              | 5           |
| 1       | 8/13/2009 | 14:00:00 | 24.48          | 257              | 4.88        |
| 1       | 8/13/2009 | 14:15:00 | 24.5           | 257              | 5           |
| 1       | 8/13/2009 | 14:30:00 | 24.59          | 256              | 4.99        |
| 1       | 8/13/2009 | 14:45:00 | 24.79          | 256              | 5.16        |
| 1       | 8/13/2009 | 15:00:00 | 24.59          | 258              | 4.77        |
| 1       | 8/13/2009 | 15:15:00 | 24.7           | 258              | 4.83        |
| 1       | 8/13/2009 | 15:30:00 | 24.62          | 259              | 4.77        |
| 1       | 8/13/2009 | 15:45:00 | 24.83          | 259              | 4.63        |
| 1       | 8/13/2009 | 16:00:00 | 24.73          | 260              | 4.67        |
| 1       | 8/13/2009 | 16:15:00 | 24.81          | 257              | 4.77        |
| 1       | 8/13/2009 | 16:30:00 | 25.02          | 256              | 5.08        |
| 1       | 8/13/2009 | 16:45:00 | 24.69          | 257              | 4.93        |
| 1       | 8/13/2009 | 17:00:00 | 24.76          | 256              | 5.2         |
| 1       | 8/13/2009 | 17:15:00 | 24.93          | 256              | 5.12        |
| 1       | 8/13/2009 | 17:30:00 | 24.9           | 259              | 4.91        |
| 1       | 8/13/2009 | 17:45:00 | 25.04          | 259              | 4.78        |
| 1       | 8/13/2009 | 18:00:00 | 24.88          | 258              | 4.78        |
| 1       | 8/13/2009 | 18:15:00 | 24.89          | 257              | 4.92        |
| 1       | 8/13/2009 | 18:30:00 | 25             | 257              | 4.86        |
| 1       | 8/13/2009 | 18:45:00 | 24.9           | 257              | 4.88        |
| 1       | 8/13/2009 | 19:00:00 | 25.07          | 257              | 4.85        |
| 1       | 8/13/2009 | 19:15:00 | 25.02          | 257              | 4.88        |
| 1       | 8/13/2009 | 19:30:00 | 25             | 258              | 4.84        |
| 1       | 8/13/2009 | 19:45:00 | 24.99          | 257              | 4.78        |
| 1       | 8/13/2009 | 20:00:00 | 25.08          | 258              | 4.76        |
| 1       | 8/13/2009 | 20:15:00 | 24.99          | 257              | 4.77        |
| 1       | 8/13/2009 | 20:30:00 | 25.1           | 258              | 4.84        |
| 1       | 8/13/2009 | 20:45:00 | 25.15          | 258              | 4.83        |
| 1       | 8/13/2009 | 21:00:00 | 25.2           | 260              | 4.7         |
| 1       | 8/13/2009 | 21:15:00 | 25.28          | 259              | 4.82        |
| 1       | 8/13/2009 | 21:30:00 | 25.2           | 261              | 4.7         |
| 1       | 8/13/2009 | 21:45:00 | 25.14          | 259              | 4.57        |
| 1       | 8/13/2009 | 22:00:00 | 25.38          | 262              | 4.57        |
| 1       | 8/13/2009 | 22:15:00 | 25.14          | 261              | 4.45        |
| 1       | 8/13/2009 | 22:30:00 | 25.29          | 264              | 4.52        |
| 1       | 8/13/2009 | 22:45:00 | 25.29          | 260              | 4.36        |
| 1       | 8/13/2009 | 23:00:00 | 25.19          | 263              | 4.27        |
| 1       | 8/13/2009 | 23:15:00 | 25.43          | 266              | 4.18        |
| 1       | 8/13/2009 | 23:30:00 | 25.37          | 267              | 3.96        |
| 1       | 8/13/2009 | 23:45:00 | 25.32          | 265              | 3.74        |
| 1       | 8/14/2009 | 0:00:00  | 25.47          | 264              | 4.1         |
| 1       | 8/14/2009 | 0:15:00  | 25.52          | 268              | 4.02        |
| 1       | 8/14/2009 | 0:30:00  | 25.6           | 266              | 4.97        |
| 1       | 8/14/2009 | 0:45:00  | 25.65          | 266              | 4.32        |

| Station | Date      | Time     | Temperature °C | Sp.Cond<br>µs/cm | oDO<br>mg/L |
|---------|-----------|----------|----------------|------------------|-------------|
| 1       | 8/14/2009 | 1:00:00  | 25.84          | 270              | 5.21        |
| 1       | 8/14/2009 | 1:15:00  | 26.02          | 265              | 5.21        |
| 1       | 8/14/2009 | 1:30:00  | 25.7           | 269              | 5.09        |
| 1       | 8/14/2009 | 1:45:00  | 25.76          | 269              | 5.11        |
| 1       | 8/14/2009 | 2:00:00  | 25.68          | 268              | 5.16        |
| 1       | 8/14/2009 | 2:15:00  | 25.64          | 269              | 5.1         |
| 1       | 8/14/2009 | 2:30:00  | 25.59          | 269              | 5.09        |
| 1       | 8/14/2009 | 2:45:00  | 25.53          | 269              | 5           |
| 1       | 8/14/2009 | 3:00:00  | 25.43          | 269              | 5.01        |
| 1       | 8/14/2009 | 3:15:00  | 25.38          | 269              | 4.91        |
| 1       | 8/14/2009 | 3:30:00  | 25.28          | 270              | 4.97        |
| 1       | 8/14/2009 | 3:45:00  | 25.21          | 270              | 4.9         |
| 1       | 8/14/2009 | 4:00:00  | 25.13          | 270              | 4.95        |
| 1       | 8/14/2009 | 4:15:00  | 25.06          | 270              | 4.94        |
| 1       | 8/14/2009 | 4:30:00  | 25.04          | 270              | 4.75        |
| 1       | 8/14/2009 | 4:45:00  | 24.96          | 271              | 4.63        |
| 1       | 8/14/2009 | 5:00:00  | 24.87          | 271              | 4.78        |
| 1       | 8/14/2009 | 5:15:00  | 24.77          | 270              | 4.75        |
| 1       | 8/14/2009 | 5:30:00  | 24.71          | 271              | 4.83        |
| 1       | 8/14/2009 | 5:45:00  | 24.67          | 271              | 4.74        |
| 1       | 8/14/2009 | 6:00:00  | 24.57          | 271              | 4.8         |
| 1       | 8/14/2009 | 6:15:00  | 24.54          | 271              | 4.64        |
| 1       | 8/14/2009 | 6:30:00  | 24.48          | 271              | 4.7         |
| 1       | 8/14/2009 | 6:45:00  | 24.43          | 271              | 4.71        |
| 1       | 8/14/2009 | 7:00:00  | 24.35          | 272              | 4.62        |
| 1       | 8/14/2009 | 7:15:00  | 24.29          | 272              | 4.7         |
| 1       | 8/14/2009 | 7:30:00  | 24.23          | 272              | 4.62        |
| 1       | 8/14/2009 | 7:45:00  | 24.23          | 272              | 4.54        |
| 1       | 8/14/2009 | 8:00:00  | 24.2           | 273              | 4.55        |
| 1       | 8/14/2009 | 8:15:00  | 24.14          | 273              | 4.55        |
| 1       | 8/14/2009 | 8:30:00  | 24.1           | 273              | 4.61        |
| 1       | 8/14/2009 | 8:45:00  | 24.06          | 273              | 4.6         |
| 1       | 8/14/2009 | 9:00:00  | 24.05          | 273              | 4.58        |
| 1       | 8/14/2009 | 9:15:00  | 23.98          | 273              | 4.57        |
| 1       | 8/14/2009 | 9:30:00  | 24.02          | 273              | 4.59        |
| 1       | 8/14/2009 | 9:45:00  | 24.09          | 273              | 4.55        |
| 1       | 8/14/2009 | 10:00:00 | 24.05          | 273              | 4.48        |
| 1       | 8/14/2009 | 10:15:00 | 24.07          | 274              | 4.52        |
| 1       | 8/14/2009 | 10:30:00 | 24.1           | 274              | 4.59        |
| 1       | 8/14/2009 | 10:45:00 | 24.11          | 274              | 4.45        |
| 1       | 8/14/2009 | 11:00:00 | 24.15          | 274              | 4.46        |
| 1       | 8/14/2009 | 11:15:00 | 24.19          | 275              | 4.36        |
| 1       | 8/14/2009 | 11:30:00 | 24.27          | 274              | 4.43        |
| 1       | 8/14/2009 | 11:45:00 | 24.31          | 274              | 4.42        |
| 1       | 8/14/2009 | 12:00:00 | 24.2           | 274              | 4.35        |
| 1       | 8/14/2009 | 12:15:00 | 24.35          | 274              | 4.37        |

| Station | Date      | Time     | Temperature °C | Sp.Cond<br>µs/cm | oDO<br>mg/L |
|---------|-----------|----------|----------------|------------------|-------------|
| 1       | 8/14/2009 | 12:30:00 | 24.32          | 274              | 4.35        |
| 1       | 8/14/2009 | 12:45:00 | 24.35          | 274              | 4.44        |
| 1       | 8/14/2009 | 13:00:00 | 24.39          | 274              | 4.38        |
| 1       | 8/14/2009 | 13:15:00 | 24.46          | 274              | 4.37        |
| 1       | 8/14/2009 | 13:30:00 | 24.41          | 276              | 4.25        |
| 1       | 8/14/2009 | 13:45:00 | 24.74          | 275              | 4.48        |
| 1       | 8/14/2009 | 14:00:00 | 24.48          | 276              | 4.55        |
| 1       | 8/14/2009 | 14:15:00 | 24.67          | 274              | 4.17        |
| 1       | 8/14/2009 | 14:30:00 | 24.72          | 275              | 4.31        |
| 1       | 8/14/2009 | 14:45:00 | 24.93          | 273              | 4.62        |
| 1       | 8/14/2009 | 15:00:00 | 24.88          | 273              | 4.57        |
| 1       | 8/14/2009 | 15:15:00 | 24.73          | 275              | 4.52        |
| 1       | 8/14/2009 | 15:30:00 | 24.69          | 274              | 4.26        |
| 1       | 8/14/2009 | 15:45:00 | 24.82          | 274              | 4.49        |
| 1       | 8/14/2009 | 16:00:00 | 24.93          | 274              | 4.61        |
| 1       | 8/14/2009 | 16:15:00 | 25.01          | 273              | 4.56        |
| 1       | 8/14/2009 | 16:30:00 | 25.08          | 275              | 4.4         |
| 1       | 8/14/2009 | 16:45:00 | 25             | 275              | 4.36        |
| 1       | 8/14/2009 | 17:00:00 | 25.16          | 276              | 4.4         |
| 1       | 8/14/2009 | 17:15:00 | 25.04          | 274              | 4.31        |
| 1       | 8/14/2009 | 17:30:00 | 25.13          | 275              | 4.3         |
| 1       | 8/14/2009 | 17:45:00 | 25.24          | 275              | 4.3         |
| 1       | 8/14/2009 | 18:00:00 | 25.18          | 276              | 4.2         |
| 1       | 8/14/2009 | 18:15:00 | 25.15          | 275              | 4.13        |
| 1       | 8/14/2009 | 18:30:00 | 25.19          | 276              | 4.37        |
| 1       | 8/14/2009 | 18:45:00 | 25.25          | 274              | 4.31        |
| 1       | 8/14/2009 | 19:00:00 | 25.19          | 275              | 4.28        |
| 1       | 8/14/2009 | 19:15:00 | 25.24          | 276              | 4.25        |
| 1       | 8/14/2009 | 19:30:00 | 25.19          | 276              | 4.2         |
| 1       | 8/14/2009 | 19:45:00 | 25.19          | 276              | 4.21        |
| 1       | 8/14/2009 | 20:00:00 | 25.11          | 276              | 4.13        |
| 1       | 8/14/2009 | 20:15:00 | 25.28          | 277              | 4.14        |
| 1       | 8/14/2009 | 20:30:00 | 25.37          | 276              | 4.06        |
| 1       | 8/14/2009 | 20:45:00 | 25.41          | 278              | 4.04        |
| 1       | 8/14/2009 | 21:00:00 | 25.37          | 279              | 3.91        |
| 1       | 8/14/2009 | 21:15:00 | 25.34          | 278              | 3.73        |
| 1       | 8/14/2009 | 21:30:00 | 25.39          | 278              | 3.82        |
| 1       | 8/14/2009 | 21:45:00 | 25.55          | 279              | 3.78        |
| 1       | 8/14/2009 | 22:00:00 | 25.46          | 278              | 3.72        |
| 1       | 8/14/2009 | 22:15:00 | 25.48          | 279              | 3.86        |
| 1       | 8/14/2009 | 22:30:00 | 25.53          | 279              | 3.93        |
| 1       | 8/14/2009 | 22:45:00 | 25.55          | 278              | 3.82        |
| 1       | 8/14/2009 | 23:00:00 | 25.49          | 277              | 3.68        |
| 1       | 8/14/2009 | 23:15:00 | 25.55          | 279              | 3.63        |
| 1       | 8/14/2009 | 23:30:00 | 25.61          | 280              | 3.62        |
| 1       | 8/14/2009 | 23:45:00 | 25.66          | 281              | 3.7         |

| Station | Date      | Time     | Temperature °C | Sp.Cond<br>µs/cm | oDO<br>mg/L |
|---------|-----------|----------|----------------|------------------|-------------|
| 1       | 8/15/2009 | 0:00:00  | 25.86          | 285              | 4.14        |
| 1       | 8/15/2009 | 0:15:00  | 26.16          | 286              | 5.58        |
| 1       | 8/15/2009 | 0:30:00  | 26.08          | 286              | 5.52        |
| 1       | 8/15/2009 | 0:45:00  | 25.76          | 287              | 5.4         |
| 1       | 8/15/2009 | 1:00:00  | 25.82          | 286              | 5.36        |
| 1       | 8/15/2009 | 1:15:00  | 25.7           | 287              | 5.34        |
| 1       | 8/15/2009 | 1:30:00  | 25.55          | 287              | 5.31        |
| 1       | 8/15/2009 | 1:45:00  | 25.45          | 287              | 5.2         |
| 1       | 8/15/2009 | 2:00:00  | 25.34          | 287              | 5.19        |
| 1       | 8/15/2009 | 2:15:00  | 25.25          | 287              | 5.1         |
| 1       | 8/15/2009 | 2:30:00  | 25.12          | 287              | 5.09        |
| 1       | 8/15/2009 | 2:45:00  | 25.03          | 287              | 5           |
| 1       | 8/15/2009 | 3:00:00  | 24.93          | 288              | 4.91        |
| 1       | 8/15/2009 | 3:15:00  | 24.81          | 287              | 4.91        |
| 1       | 8/15/2009 | 3:30:00  | 24.73          | 287              | 4.84        |
| 1       | 8/15/2009 | 3:45:00  | 24.63          | 287              | 4.8         |
| 1       | 8/15/2009 | 4:00:00  | 24.53          | 287              | 4.81        |
| 1       | 8/15/2009 | 4:15:00  | 24.47          | 287              | 4.69        |
| 1       | 8/15/2009 | 4:30:00  | 24.35          | 288              | 4.74        |
| 1       | 8/15/2009 | 4:45:00  | 24.25          | 288              | 4.72        |
| 1       | 8/15/2009 | 5:00:00  | 24.14          | 288              | 4.66        |
| 1       | 8/15/2009 | 5:15:00  | 24.05          | 288              | 4.65        |
| 1       | 8/15/2009 | 5:30:00  | 23.94          | 288              | 4.68        |
| 1       | 8/15/2009 | 5:45:00  | 23.85          | 288              | 4.69        |
| 1       | 8/15/2009 | 6:00:00  | 23.76          | 288              | 4.62        |
| 1       | 8/15/2009 | 6:15:00  | 23.68          | 288              | 4.57        |
| 1       | 8/15/2009 | 6:30:00  | 23.57          | 288              | 4.63        |
| 1       | 8/15/2009 | 6:45:00  | 23.5           | 288              | 4.59        |
| 1       | 8/15/2009 | 7:00:00  | 23.41          | 288              | 4.57        |
| 1       | 8/15/2009 | 7:15:00  | 23.31          | 288              | 4.59        |
| 1       | 8/15/2009 | 7:30:00  | 23.26          | 288              | 4.61        |
| 1       | 8/15/2009 | 7:45:00  | 23.19          | 289              | 4.56        |
| 1       | 8/15/2009 | 8:00:00  | 23.19          | 289              | 4.56        |
| 1       | 8/15/2009 | 8:15:00  | 23.14          | 289              | 4.53        |
| 1       | 8/15/2009 | 8:30:00  | 23.12          | 289              | 4.45        |
| 1       | 8/15/2009 | 8:45:00  | 23.22          | 290              | 4.27        |
| 1       | 8/15/2009 | 9:00:00  | 23.16          | 289              | 4.3         |
| 1       | 8/15/2009 | 9:15:00  | 23.11          | 290              | 4.43        |
| 1       | 8/15/2009 | 9:30:00  | 23.05          | 290              | 4.44        |
| 1       | 8/15/2009 | 9:45:00  | 23.14          | 290              | 4.42        |
| 1       | 8/15/2009 | 10:00:00 | 23.25          | 290              | 4.67        |
| 1       | 8/15/2009 | 10:15:00 | 23.39          | 289              | 4.53        |
| 1       | 8/15/2009 | 10:30:00 | 23.37          | 290              | 4.67        |
| 1       | 8/15/2009 | 10:45:00 | 23.39          | 290              | 4.53        |
| 1       | 8/15/2009 | 11:00:00 | 23.32          | 290              | 4.49        |
| 1       | 8/15/2009 | 11:15:00 | 23.5           | 290              | 4.48        |

| Station | Date      | Time     | Temperature °C | Sp.Cond<br>µs/cm | oDO<br>mg/L |
|---------|-----------|----------|----------------|------------------|-------------|
| 1       | 8/15/2009 | 11:30:00 | 23.44          | 291              | 4.42        |
| 1       | 8/15/2009 | 11:45:00 | 23.42          | 291              | 4.46        |
| 1       | 8/15/2009 | 12:00:00 | 23.47          | 291              | 4.37        |
| 1       | 8/15/2009 | 12:15:00 | 23.55          | 291              | 4.3         |
| 1       | 8/15/2009 | 12:30:00 | 23.59          | 291              | 4.28        |
| 1       | 8/15/2009 | 12:45:00 | 23.68          | 293              | 4.45        |
| 1       | 8/15/2009 | 13:00:00 | 23.59          | 292              | 4.12        |
| 1       | 8/15/2009 | 13:15:00 | 23.58          | 292              | 4.21        |
| 1       | 8/15/2009 | 13:30:00 | 23.74          | 292              | 4.39        |
| 1       | 8/15/2009 | 13:45:00 | 23.87          | 292              | 4.62        |
| 1       | 8/15/2009 | 14:00:00 | 24.27          | 292              | 4.81        |
| 1       | 8/15/2009 | 14:15:00 | 24.22          | 293              | 5.04        |
| 1       | 8/15/2009 | 14:30:00 | 23.96          | 292              | 4.58        |
| 1       | 8/15/2009 | 14:45:00 | 24.16          | 292              | 4.79        |
| 1       | 8/15/2009 | 15:00:00 | 24.37          | 292              | 4.9         |
| 1       | 8/15/2009 | 15:15:00 | 24.4           | 292              | 4.91        |
| 1       | 8/15/2009 | 15:30:00 | 24.55          | 293              | 5.25        |
| 1       | 8/15/2009 | 15:45:00 | 24.3           | 294              | 4.72        |
| 1       | 8/15/2009 | 16:00:00 | 24.33          | 293              | 4.47        |
| 1       | 8/15/2009 | 16:15:00 | 24.54          | 294              | 4.77        |
| 1       | 8/15/2009 | 16:30:00 | 24.29          | 294              | 4.67        |
| 1       | 8/15/2009 | 16:45:00 | 24.29          | 293              | 4.56        |
| 1       | 8/15/2009 | 17:00:00 | 24.24          | 292              | 4.68        |
| 1       | 8/15/2009 | 17:15:00 | 24.72          | 296              | 4.86        |
| 1       | 8/15/2009 | 17:30:00 | 24.42          | 293              | 4.71        |
| 1       | 8/15/2009 | 17:45:00 | 24.54          | 293              | 4.74        |
| 1       | 8/15/2009 | 18:00:00 | 24.72          | 294              | 4.64        |
| 1       | 8/15/2009 | 18:15:00 | 24.74          | 294              | 4.69        |
| 1       | 8/15/2009 | 18:30:00 | 25.32          | 292              | 4.59        |
| 1       | 8/15/2009 | 18:45:00 | 25.04          | 295              | 4.78        |
| 1       | 8/15/2009 | 19:00:00 | 24.75          | 294              | 4.57        |
| 1       | 8/15/2009 | 19:15:00 | 24.81          | 293              | 4.47        |
| 1       | 8/15/2009 | 19:30:00 | 24.71          | 294              | 4.34        |
| 1       | 8/15/2009 | 19:45:00 | 24.78          | 293              | 4.38        |
| 1       | 8/15/2009 | 20:00:00 | 24.7           | 294              | 4.43        |
| 1       | 8/15/2009 | 20:15:00 | 24.85          | 294              | 4.25        |
| 1       | 8/15/2009 | 20:30:00 | 24.73          | 294              | 4.06        |
| 1       | 8/15/2009 | 20:45:00 | 24.75          | 294              | 4.13        |
| 1       | 8/15/2009 | 21:00:00 | 25.14          | 295              | 4.28        |
| 1       | 8/15/2009 | 21:15:00 | 25.13          | 295              | 4.25        |
| 1       | 8/15/2009 | 21:30:00 | 25.09          | 296              | 4.13        |
| 1       | 8/15/2009 | 21:45:00 | 25.02          | 296              | 3.93        |
| 1       | 8/15/2009 | 22:00:00 | 25.05          | 295              | 3.99        |
| 1       | 8/15/2009 | 22:15:00 | 25             | 297              | 3.93        |
| 1       | 8/15/2009 | 22:30:00 | 25.05          | 297              | 3.99        |
| 1       | 8/15/2009 | 22:45:00 | 25.13          | 296              | 3.8         |

| Station | Date      | Time     | Temperature °C | Sp.Cond<br>µs/cm | oDO<br>mg/L |
|---------|-----------|----------|----------------|------------------|-------------|
| 1       | 8/15/2009 | 23:00:00 | 24.99          | 295              | 3.78        |
| 1       | 8/15/2009 | 23:15:00 | 25.2           | 295              | 4.06        |
| 1       | 8/15/2009 | 23:30:00 | 25.2           | 297              | 4.2         |
| 1       | 8/15/2009 | 23:45:00 | 25.84          | 296              | 4.61        |
| 1       | 8/16/2009 | 0:00:00  | 25.56          | 295              | 5.51        |
| 1       | 8/16/2009 | 0:15:00  | 25.73          | 298              | 5.09        |
| 1       | 8/16/2009 | 0:30:00  | 25.04          | 300              | 4.62        |
| 1       | 8/16/2009 | 0:45:00  | 25.47          | 300              | 5.21        |
| 1       | 8/16/2009 | 1:00:00  | 25.37          | 301              | 5.28        |
| 1       | 8/16/2009 | 1:15:00  | 25.34          | 300              | 5.33        |
| 1       | 8/16/2009 | 1:30:00  | 25.26          | 301              | 5.37        |
| 1       | 8/16/2009 | 1:45:00  | 25.17          | 301              | 5.33        |
| 1       | 8/16/2009 | 2:00:00  | 25.14          | 301              | 5.29        |
| 1       | 8/16/2009 | 2:15:00  | 25.04          | 302              | 5.17        |
| 1       | 8/16/2009 | 2:30:00  | 24.86          | 301              | 5.03        |
| 1       | 8/16/2009 | 2:45:00  | 24.88          | 302              | 4.85        |
| 1       | 8/16/2009 | 3:00:00  | 24.78          | 302              | 5.05        |
| 1       | 8/16/2009 | 3:15:00  | 24.72          | 302              | 5.07        |
| 1       | 8/16/2009 | 3:30:00  | 24.67          | 303              | 5           |
| 1       | 8/16/2009 | 3:45:00  | 24.57          | 302              | 5.07        |
| 1       | 8/16/2009 | 4:00:00  | 24.47          | 302              | 5.03        |
| 1       | 8/16/2009 | 4:15:00  | 24.39          | 303              | 5.02        |
| 1       | 8/16/2009 | 4:30:00  | 24.35          | 303              | 5.01        |
| 1       | 8/16/2009 | 4:45:00  | 24.32          | 303              | 4.96        |
| 1       | 8/16/2009 | 5:00:00  | 24.26          | 303              | 4.93        |
| 1       | 8/16/2009 | 5:15:00  | 24.17          | 303              | 4.95        |
| 1       | 8/16/2009 | 5:30:00  | 24.1           | 303              | 4.96        |
| 1       | 8/16/2009 | 5:45:00  | 24.05          | 303              | 4.95        |
| 1       | 8/16/2009 | 6:00:00  | 24.01          | 303              | 4.92        |
| 1       | 8/16/2009 | 6:15:00  | 24.02          | 302              | 4.9         |
| 1       | 8/16/2009 | 6:30:00  | 23.95          | 303              | 4.87        |
| 1       | 8/16/2009 | 6:45:00  | 23.94          | 303              | 4.84        |
| 1       | 8/16/2009 | 7:00:00  | 23.95          | 303              | 4.76        |
| 1       | 8/16/2009 | 7:15:00  | 23.95          | 302              | 4.84        |
| 1       | 8/16/2009 | 7:30:00  | 23.91          | 301              | 4.85        |
| 1       | 8/16/2009 | 7:45:00  | 23.84          | 300              | 4.86        |
| 1       | 8/16/2009 | 8:00:00  | 23.82          | 299              | 4.93        |
| 1       | 8/16/2009 | 8:15:00  | 23.78          | 299              | 4.93        |
| 1       | 8/16/2009 | 8:30:00  | 23.78          | 298              | 5.01        |
| 1       | 8/16/2009 | 8:45:00  | 23.8           | 297              | 5.01        |
| 1       | 8/16/2009 | 9:00:00  | 23.77          | 297              | 5.02        |
| 1       | 8/16/2009 | 9:15:00  | 23.84          | 297              | 4.87        |
| 1       | 8/16/2009 | 9:30:00  | 23.83          | 298              | 4.76        |
| 1       | 8/16/2009 | 9:45:00  | 23.83          | 297              | 4.91        |
| 1       | 8/16/2009 | 10:00:00 | 23.82          | 297              | 4.69        |
| 1       | 8/16/2009 | 10:15:00 | 23.8           | 296              | 5.05        |

| Station | Date      | Time     | Temperature °C | Sp.Cond<br>µs/cm | oDO<br>mg/L |
|---------|-----------|----------|----------------|------------------|-------------|
| 1       | 8/16/2009 | 10:30:00 | 23.68          | 293              | 5           |
| 1       | 8/16/2009 | 10:45:00 | 23.62          | 289              | 5.3         |
| 1       | 8/16/2009 | 11:00:00 | 23.59          | 287              | 5.38        |
| 1       | 8/16/2009 | 11:15:00 | 23.52          | 281              | 5.55        |
| 1       | 8/16/2009 | 11:30:00 | 23.42          | 277              | 5.57        |
| 1       | 8/16/2009 | 11:45:00 | 23.35          | 267              | 5.66        |
| 1       | 8/16/2009 | 12:00:00 | 23.3           | 258              | 5.64        |
| 1       | 8/16/2009 | 12:15:00 | 23.27          | 259              | 5.67        |
| 1       | 8/16/2009 | 12:30:00 | 22.84          | 212              | 6.3         |
| 1       | 8/16/2009 | 12:45:00 | 22.42          | 181              | 6.57        |
| 1       | 8/16/2009 | 13:00:00 | 22.32          | 164              | 6.75        |
| 1       | 8/16/2009 | 13:15:00 | 22.35          | 173              | 6.85        |
| 1       | 8/16/2009 | 13:30:00 | 22.4           | 178              | 6.84        |
| 1       | 8/16/2009 | 13:45:00 | 22.53          | 168              | 6.79        |
| 1       | 8/16/2009 | 14:00:00 | 22.67          | 154              | 6.77        |
| 1       | 8/16/2009 | 14:15:00 | 22.94          | 159              | 6.66        |
| 1       | 8/16/2009 | 14:30:00 | 23.04          | 162              | 6.59        |
| 1       | 8/16/2009 | 14:45:00 | 23.37          | 184              | 6.42        |
| 1       | 8/16/2009 | 15:00:00 | 23.64          | 209              | 6.22        |
| 1       | 8/16/2009 | 15:15:00 | 23.79          | 216              | 6.26        |
| 1       | 8/16/2009 | 15:30:00 | 24.22          | 244              | 6.3         |
| 1       | 8/16/2009 | 15:45:00 | 24.45          | 265              | 6.17        |
| 1       | 8/16/2009 | 16:00:00 | 24.4           | 279              | 6.09        |
| 1       | 8/16/2009 | 16:15:00 | 24.46          | 293              | 6.11        |
| 1       | 8/16/2009 | 16:30:00 | 24.62          | 308              | 6.1         |
| 1       | 8/16/2009 | 16:45:00 | 24.54          | 319              | 5.94        |
| 1       | 8/16/2009 | 17:00:00 | 24.4           | 318              | 5.85        |
| 1       | 8/16/2009 | 17:15:00 | 24.28          | 314              | 5.83        |
| 1       | 8/16/2009 | 17:30:00 | 24.21          | 314              | 5.85        |
| 1       | 8/16/2009 | 17:45:00 | 24.13          | 315              | 5.88        |
| 1       | 8/16/2009 | 18:00:00 | 24.08          | 314              | 5.9         |
| 1       | 8/16/2009 | 18:15:00 | 24.07          | 319              | 5.92        |
| 1       | 8/16/2009 | 18:30:00 | 24.02          | 324              | 5.96        |
| 1       | 8/16/2009 | 18:45:00 | 23.98          | 331              | 5.98        |
| 1       | 8/16/2009 | 19:00:00 | 23.92          | 333              | 6.01        |
| 1       | 8/16/2009 | 19:15:00 | 23.91          | 342              | 6.03        |
| 1       | 8/16/2009 | 19:30:00 | 23.88          | 350              | 6.02        |
| 1       | 8/16/2009 | 19:45:00 | 23.86          | 354              | 6.03        |
| 1       | 8/16/2009 | 20:00:00 | 23.83          | 352              | 6.06        |
| 1       | 8/16/2009 | 20:15:00 | 23.81          | 354              | 6.06        |
| 1       | 8/16/2009 | 20:30:00 | 23.78          | 353              | 6.05        |
| 1       | 8/16/2009 | 20:45:00 | 23.74          | 346              | 6.05        |
| 1       | 8/16/2009 | 21:00:00 | 23.71          | 341              | 6.05        |
| 1       | 8/16/2009 | 21:15:00 | 23.66          | 335              | 6.06        |
| 1       | 8/16/2009 | 21:30:00 | 23.62          | 327              | 6.07        |
| 1       | 8/16/2009 | 21:45:00 | 23.6           | 323              | 6.07        |

| Station | Date      | Time     | Temperature °C | Sp.Cond<br>µs/cm | oDO<br>mg/L |
|---------|-----------|----------|----------------|------------------|-------------|
| 1       | 8/16/2009 | 22:00:00 | 23.58          | 318              | 6.07        |
| 1       | 8/16/2009 | 22:15:00 | 23.55          | 315              | 6.04        |
| 1       | 8/16/2009 | 22:30:00 | 23.53          | 309              | 6.07        |
| 1       | 8/16/2009 | 22:45:00 | 23.51          | 305              | 6.05        |
| 1       | 8/16/2009 | 23:00:00 | 23.49          | 303              | 6.05        |
| 1       | 8/16/2009 | 23:15:00 | 23.47          | 301              | 6.03        |
| 1       | 8/16/2009 | 23:30:00 | 23.46          | 299              | 6.02        |
| 1       | 8/16/2009 | 23:45:00 | 23.45          | 299              | 6           |
| 1       | 8/17/2009 | 0:00:00  | 23.44          | 298              | 5.96        |
| 1       | 8/17/2009 | 0:15:00  | 23.42          | 299              | 5.97        |
| 1       | 8/17/2009 | 0:30:00  | 23.41          | 299              | 5.94        |
| 1       | 8/17/2009 | 0:45:00  | 23.41          | 300              | 5.93        |
| 1       | 8/17/2009 | 1:00:00  | 23.43          | 300              | 5.84        |
| 1       | 8/17/2009 | 1:15:00  | 23.42          | 303              | 5.8         |
| 1       | 8/17/2009 | 1:30:00  | 23.43          | 307              | 5.88        |
| 1       | 8/17/2009 | 1:45:00  | 23.42          | 309              | 5.82        |
| 1       | 8/17/2009 | 2:00:00  | 23.43          | 306              | 5.75        |
| 1       | 8/17/2009 | 2:15:00  | 23.41          | 318              | 5.85        |
| 1       | 8/17/2009 | 2:30:00  | 23.41          | 320              | 5.73        |
| 1       | 8/17/2009 | 2:45:00  | 23.41          | 319              | 5.74        |
| 1       | 8/17/2009 | 3:00:00  | 23.41          | 328              | 5.83        |
| 1       | 8/17/2009 | 3:15:00  | 23.4           | 332              | 5.81        |
| 1       | 8/17/2009 | 3:30:00  | 23.4           | 334              | 5.76        |
| 1       | 8/17/2009 | 3:45:00  | 23.4           | 333              | 5.53        |
| 1       | 8/17/2009 | 4:00:00  | 23.38          | 343              | 5.75        |
| 1       | 8/17/2009 | 4:15:00  | 23.37          | 345              | 5.65        |
| 1       | 8/17/2009 | 4:30:00  | 23.36          | 345              | 5.65        |
| 1       | 8/17/2009 | 4:45:00  | 23.36          | 354              | 5.77        |
| 1       | 8/17/2009 | 5:00:00  | 23.36          | 355              | 5.75        |
| 1       | 8/17/2009 | 5:15:00  | 23.35          | 349              | 5.66        |
| 1       | 8/17/2009 | 5:30:00  | 23.34          | 358              | 5.77        |
| 1       | 8/17/2009 | 5:45:00  | 23.33          | 356              | 5.76        |
| 1       | 8/17/2009 | 6:00:00  | 23.32          | 356              | 5.7         |
| 1       | 8/17/2009 | 6:15:00  | 23.3           | 356              | 5.71        |
| 1       | 8/17/2009 | 6:30:00  | 23.28          | 354              | 5.7         |
| 1       | 8/17/2009 | 6:45:00  | 23.26          | 355              | 5.65        |
| 1       | 8/17/2009 | 7:00:00  | 23.24          | 355              | 5.74        |
| 1       | 8/17/2009 | 7:15:00  | 23.22          | 351              | 5.69        |
| 1       | 8/17/2009 | 7:30:00  | 23.2           | 352              | 5.71        |
| 1       | 8/17/2009 | 7:45:00  | 23.18          | 351              | 5.6         |
| 1       | 8/17/2009 | 8:00:00  | 23.18          | 349              | 5.66        |
| 1       | 8/17/2009 | 8:15:00  | 23.15          | 346              | 5.66        |
| 1       | 8/17/2009 | 8:30:00  | 23.16          | 346              | 5.62        |
| 1       | 8/17/2009 | 8:45:00  | 23.14          | 342              | 5.63        |
| 1       | 8/17/2009 | 9:00:00  | 23.16          | 338              | 5.72        |
| 1       | 8/17/2009 | 9:15:00  | 23.14          | 338              | 5.56        |

| Station | Date      | Time     | Temperature °C | Sp.Cond<br>µs/cm | oDO<br>mg/L |
|---------|-----------|----------|----------------|------------------|-------------|
| 1       | 8/17/2009 | 9:30:00  | 23.15          | 332              | 5.67        |
| 1       | 8/17/2009 | 9:45:00  | 23.14          | 331              | 5.7         |
| 1       | 8/17/2009 | 10:00:00 | 23.11          | 330              | 5.68        |
| 1       | 8/17/2009 | 10:15:00 | 23.08          | 331              | 5.55        |
| 1       | 8/17/2009 | 10:30:00 | 23.08          | 324              | 5.61        |
| 1       | 8/17/2009 | 10:45:00 | 23.09          | 320              | 5.69        |
| 1       | 8/17/2009 | 11:00:00 | 23.11          | 318              | 5.65        |
| 1       | 8/17/2009 | 11:15:00 | 23.19          | 314              | 5.69        |
| 1       | 8/17/2009 | 11:30:00 | 23.19          | 311              | 5.7         |
| 1       | 8/17/2009 | 11:45:00 | 22.77          | 229              | 6.23        |
| 1       | 8/17/2009 | 12:00:00 | 22.63          | 229              | 6.4         |
| 1       | 8/17/2009 | 12:15:00 | 22.75          | 238              | 6.38        |
| 1       | 8/17/2009 | 12:30:00 | 22.67          | 241              | 6.36        |
| 1       | 8/17/2009 | 12:45:00 | 22.15          | 161              | 6.56        |
| 1       | 8/17/2009 | 13:00:00 | 21.8           | 86               | 6.91        |
| 1       | 8/17/2009 | 13:15:00 | 22.01          | 147              | 6.87        |
| 1       | 8/17/2009 | 13:30:00 | 21.94          | 126              | 6.88        |
| 1       | 8/17/2009 | 13:45:00 | 22.05          | 140              | 6.77        |
| 1       | 8/17/2009 | 14:00:00 | 22.37          | 173              | 6.43        |
| 1       | 8/17/2009 | 14:15:00 | 22.5           | 199              | 6.13        |
| 1       | 8/17/2009 | 14:30:00 | 22.44          | 204              | 6.03        |
| 1       | 8/17/2009 | 14:45:00 | 22.29          | 177              | 6.05        |
| 1       | 8/17/2009 | 15:00:00 | 22.21          | 157              | 6           |
| 1       | 8/17/2009 | 15:15:00 | 22.14          | 138              | 6.07        |
| 1       | 8/17/2009 | 15:30:00 | 22.12          | 128              | 6.11        |
| 1       | 8/17/2009 | 15:45:00 | 22.26          | 155              | 6.03        |
| 1       | 8/17/2009 | 16:00:00 | 22.24          | 161              | 6.05        |
| 1       | 8/17/2009 | 16:15:00 | 22.19          | 154              | 6.04        |
| 1       | 8/17/2009 | 16:30:00 | 22.2           | 151              | 6.05        |
| 1       | 8/17/2009 | 16:45:00 | 22.23          | 143              | 6.05        |
| 1       | 8/17/2009 | 17:00:00 | 22.29          | 140              | 6.08        |
| 1       | 8/17/2009 | 17:15:00 | 22.32          | 140              | 6.12        |
| 1       | 8/17/2009 | 17:30:00 | 22.37          | 149              | 6.14        |
| 1       | 8/17/2009 | 17:45:00 | 22.41          | 153              | 6.17        |
| 1       | 8/17/2009 | 18:00:00 | 22.47          | 155              | 6.13        |
| 1       | 8/17/2009 | 18:15:00 | 22.5           | 153              | 6.15        |
| 1       | 8/17/2009 | 18:30:00 | 22.53          | 150              | 6.18        |
| 1       | 8/17/2009 | 18:45:00 | 22.55          | 143              | 6.2         |
| 1       | 8/17/2009 | 19:00:00 | 22.59          | 145              | 6.21        |
| 1       | 8/17/2009 | 19:15:00 | 22.62          | 147              | 6.25        |
| 1       | 8/17/2009 | 19:30:00 | 22.65          | 147              | 6.26        |
| 1       | 8/17/2009 | 19:45:00 | 22.67          | 149              | 6.26        |
| 1       | 8/17/2009 | 20:00:00 | 22.7           | 150              | 6.25        |
| 1       | 8/17/2009 | 20:15:00 | 22.71          | 151              | 6.28        |
| 1       | 8/17/2009 | 20:30:00 | 22.71          | 152              | 6.28        |
| 1       | 8/17/2009 | 20:45:00 | 22.72          | 153              | 6.3         |

| Station | Date      | Time     | Temperature °C | Sp.Cond<br>µs/cm | oDO<br>mg/L |
|---------|-----------|----------|----------------|------------------|-------------|
| 1       | 8/17/2009 | 21:00:00 | 22.73          | 154              | 6.29        |
| 1       | 8/17/2009 | 21:15:00 | 22.73          | 154              | 6.3         |
| 1       | 8/17/2009 | 21:30:00 | 22.73          | 155              | 6.3         |
| 1       | 8/17/2009 | 21:45:00 | 22.73          | 156              | 6.3         |
| 1       | 8/17/2009 | 22:00:00 | 22.73          | 157              | 6.3         |
| 1       | 8/17/2009 | 22:15:00 | 22.73          | 158              | 6.31        |
| 1       | 8/17/2009 | 22:30:00 | 22.73          | 159              | 6.33        |
| 1       | 8/17/2009 | 22:45:00 | 22.72          | 160              | 6.32        |
| 1       | 8/17/2009 | 23:00:00 | 22.71          | 162              | 6.3         |
| 1       | 8/17/2009 | 23:15:00 | 22.71          | 163              | 6.32        |
| 1       | 8/17/2009 | 23:30:00 | 22.7           | 164              | 6.33        |
| 1       | 8/17/2009 | 23:45:00 | 22.69          | 165              | 6.32        |
| 1       | 8/18/2009 | 0:00:00  | 22.69          | 166              | 6.32        |
| 1       | 8/18/2009 | 0:15:00  | 22.69          | 168              | 6.31        |
| 1       | 8/18/2009 | 0:30:00  | 22.68          | 168              | 6.34        |
| 1       | 8/18/2009 | 0:45:00  | 22.67          | 169              | 6.34        |
| 1       | 8/18/2009 | 1:00:00  | 22.67          | 170              | 6.33        |
| 1       | 8/18/2009 | 1:15:00  | 22.64          | 170              | 6.32        |
| 1       | 8/18/2009 | 1:30:00  | 22.65          | 172              | 6.33        |
| 1       | 8/18/2009 | 1:45:00  | 22.63          | 172              | 6.33        |
| 1       | 8/18/2009 | 2:00:00  | 22.63          | 173              | 6.34        |
| 1       | 8/18/2009 | 2:15:00  | 22.61          | 174              | 6.31        |
| 1       | 8/18/2009 | 2:30:00  | 22.6           | 175              | 6.33        |
| 1       | 8/18/2009 | 2:45:00  | 22.59          | 176              | 6.31        |
| 1       | 8/18/2009 | 3:00:00  | 22.56          | 176              | 6.33        |
| 1       | 8/18/2009 | 3:15:00  | 22.55          | 178              | 6.3         |
| 1       | 8/18/2009 | 3:30:00  | 22.54          | 179              | 6.32        |
| 1       | 8/18/2009 | 3:45:00  | 22.52          | 179              | 6.3         |
| 1       | 8/18/2009 | 4:00:00  | 22.51          | 180              | 6.31        |
| 1       | 8/18/2009 | 4:15:00  | 22.49          | 181              | 6.31        |
| 1       | 8/18/2009 | 4:30:00  | 22.48          | 181              | 6.29        |
| 1       | 8/18/2009 | 4:45:00  | 22.47          | 183              | 6.29        |
| 1       | 8/18/2009 | 5:00:00  | 22.45          | 183              | 6.28        |
| 1       | 8/18/2009 | 5:15:00  | 22.44          | 185              | 6.32        |
| 1       | 8/18/2009 | 5:30:00  | 22.44          | 186              | 6.31        |
| 1       | 8/18/2009 | 5:45:00  | 22.42          | 186              | 6.3         |
| 1       | 8/18/2009 | 6:00:00  | 22.39          | 186              | 6.27        |
| 1       | 8/18/2009 | 6:15:00  | 22.38          | 187              | 6.29        |
| 1       | 8/18/2009 | 6:30:00  | 22.37          | 187              | 6.25        |
| 1       | 8/18/2009 | 6:45:00  | 22.35          | 188              | 6.3         |
| 1       | 8/18/2009 | 7:00:00  | 22.35          | 189              | 6.27        |
| 1       | 8/18/2009 | 7:15:00  | 22.33          | 189              | 6.28        |
| 1       | 8/18/2009 | 7:30:00  | 22.34          | 191              | 6.26        |
| 1       | 8/18/2009 | 7:45:00  | 22.32          | 191              | 6.27        |
| 1       | 8/18/2009 | 8:00:00  | 22.32          | 192              | 6.29        |
| 1       | 8/18/2009 | 8:15:00  | 22.31          | 192              | 6.28        |

| Station | Date      | Time     | Temperature °C | Sp.Cond<br>µs/cm | oDO<br>mg/L |
|---------|-----------|----------|----------------|------------------|-------------|
| 1       | 8/18/2009 | 8:30:00  | 22.3           | 193              | 6.28        |
| 1       | 8/18/2009 | 8:45:00  | 22.3           | 193              | 6.3         |
| 1       | 8/18/2009 | 9:00:00  | 22.31          | 193              | 6.23        |
| 1       | 8/18/2009 | 9:15:00  | 22.32          | 195              | 6.3         |
| 1       | 8/18/2009 | 9:30:00  | 22.33          | 196              | 6.29        |
| 1       | 8/18/2009 | 9:45:00  | 22.36          | 196              | 6.33        |
| 1       | 8/18/2009 | 10:00:00 | 22.39          | 196              | 6.32        |
| 1       | 8/18/2009 | 10:15:00 | 22.43          | 197              | 6.36        |
| 1       | 8/18/2009 | 10:30:00 | 22.5           | 197              | 6.37        |
| 1       | 8/18/2009 | 10:45:00 | 22.6           | 198              | 6.44        |
| 1       | 8/18/2009 | 11:00:00 | 22.69          | 199              | 6.49        |
| 1       | 8/18/2009 | 11:15:00 | 22.76          | 199              | 6.52        |
| 1       | 8/18/2009 | 11:30:00 | 22.85          | 200              | 6.57        |
| 1       | 8/18/2009 | 11:45:00 | 22.9           | 200              | 6.6         |
| 1       | 8/18/2009 | 12:00:00 | 22.93          | 201              | 6.59        |
| 1       | 8/18/2009 | 12:15:00 | 22.97          | 201              | 6.64        |
| 1       | 8/18/2009 | 12:30:00 | 22.98          | 202              | 6.6         |
| 1       | 8/18/2009 | 12:45:00 | 22.99          | 202              | 6.59        |
| 1       | 8/18/2009 | 13:00:00 | 23.04          | 203              | 6.62        |
| 1       | 8/18/2009 | 13:15:00 | 23.06          | 203              | 6.63        |
| 1       | 8/18/2009 | 13:30:00 | 23.1           | 203              | 6.65        |
| 1       | 8/18/2009 | 13:45:00 | 23.22          | 204              | 6.64        |
| 1       | 8/18/2009 | 14:00:00 | 23.3           | 205              | 6.75        |
| 1       | 8/18/2009 | 14:15:00 | 23.43          | 205              | 6.79        |
| 1       | 8/18/2009 | 14:30:00 | 23.5           | 206              | 6.82        |
| 1       | 8/18/2009 | 14:45:00 | 23.68          | 207              | 6.89        |
| 1       | 8/18/2009 | 15:00:00 | 23.74          | 207              | 6.91        |
| 1       | 8/18/2009 | 15:15:00 | 23.8           | 208              | 6.94        |
| 1       | 8/18/2009 | 15:30:00 | 23.9           | 208              | 6.97        |
| 1       | 8/18/2009 | 15:45:00 | 23.91          | 209              | 6.97        |
| 1       | 8/18/2009 | 16:00:00 | 23.92          | 209              | 6.95        |
| 1       | 8/18/2009 | 16:15:00 | 23.93          | 210              | 6.97        |
| 1       | 8/18/2009 | 16:30:00 | 23.98          | 210              | 6.94        |
| 1       | 8/18/2009 | 16:45:00 | 24.01          | 211              | 6.9         |
| 1       | 8/18/2009 | 17:00:00 | 24.06          | 211              | 6.93        |
| 1       | 8/18/2009 | 17:15:00 | 24.02          | 212              | 6.87        |
| 1       | 8/18/2009 | 17:30:00 | 23.94          | 213              | 6.87        |
| 1       | 8/18/2009 | 17:45:00 | 23.9           | 213              | 6.8         |
| 1       | 8/18/2009 | 18:00:00 | 23.88          | 213              | 6.74        |
| 1       | 8/18/2009 | 18:15:00 | 23.82          | 214              | 6.67        |
| 1       | 8/18/2009 | 18:30:00 | 23.78          | 214              | 6.6         |
| 1       | 8/18/2009 | 18:45:00 | 23.74          | 215              | 6.55        |
| 1       | 8/18/2009 | 19:00:00 | 23.72          | 215              | 6.52        |
| 1       | 8/18/2009 | 19:15:00 | 23.67          | 216              | 6.5         |
| 1       | 8/18/2009 | 19:30:00 | 23.64          | 216              | 6.41        |
| 1       | 8/18/2009 | 19:45:00 | 23.58          | 217              | 6.4         |

| Station | Date      | Time     | Temperature °C | Sp.Cond<br>µs/cm | oDO<br>mg/L |
|---------|-----------|----------|----------------|------------------|-------------|
| 1       | 8/18/2009 | 20:00:00 | 23.5           | 217              | 6.38        |
| 1       | 8/18/2009 | 20:15:00 | 23.45          | 218              | 6.33        |
| 1       | 8/18/2009 | 20:30:00 | 23.38          | 218              | 6.27        |
| 1       | 8/18/2009 | 20:45:00 | 23.32          | 219              | 6.27        |
| 1       | 8/18/2009 | 21:00:00 | 23.34          | 219              | 6.16        |
| 1       | 8/18/2009 | 21:15:00 | 23.22          | 220              | 6.23        |
| 1       | 8/18/2009 | 21:30:00 | 23.23          | 220              | 6.17        |
| 1       | 8/18/2009 | 21:45:00 | 23.13          | 220              | 6.1         |
| 1       | 8/18/2009 | 22:00:00 | 23.07          | 221              | 6.11        |
| 1       | 8/18/2009 | 22:15:00 | 23             | 221              | 6.15        |
| 1       | 8/18/2009 | 22:30:00 | 23.05          | 221              | 6.1         |
| 1       | 8/18/2009 | 22:45:00 | 22.9           | 222              | 6.08        |
| 1       | 8/18/2009 | 23:00:00 | 22.86          | 223              | 6.11        |
| 1       | 8/18/2009 | 23:15:00 | 22.82          | 223              | 6.05        |
| 1       | 8/18/2009 | 23:30:00 | 22.78          | 224              | 6.03        |
| 1       | 8/18/2009 | 23:45:00 | 22.73          | 224              | 6.07        |
| 1       | 8/19/2009 | 0:00:00  | 22.73          | 224              | 5.96        |
| 1       | 8/19/2009 | 0:15:00  | 22.66          | 225              | 5.9         |
| 1       | 8/19/2009 | 0:30:00  | 22.62          | 225              | 5.92        |
| 1       | 8/19/2009 | 0:45:00  | 22.57          | 226              | 6           |
| 1       | 8/19/2009 | 1:00:00  | 22.54          | 226              | 5.99        |
| 1       | 8/19/2009 | 1:15:00  | 22.47          | 227              | 5.79        |
| 1       | 8/19/2009 | 1:30:00  | 22.46          | 227              | 5.86        |
| 1       | 8/19/2009 | 1:45:00  | 22.44          | 227              | 5.87        |
| 1       | 8/19/2009 | 2:00:00  | 22.4           | 228              | 5.75        |
| 1       | 8/19/2009 | 2:15:00  | 22.34          | 228              | 5.91        |
| 1       | 8/19/2009 | 2:30:00  | 22.32          | 228              | 5.87        |
| 1       | 8/19/2009 | 2:45:00  | 22.28          | 229              | 5.96        |
| 1       | 8/19/2009 | 3:00:00  | 22.25          | 230              | 5.92        |
| 1       | 8/19/2009 | 3:15:00  | 22.22          | 230              | 5.96        |
| 1       | 8/19/2009 | 3:30:00  | 22.21          | 230              | 5.77        |
| 1       | 8/19/2009 | 3:45:00  | 22.15          | 231              | 5.86        |
| 1       | 8/19/2009 | 4:00:00  | 22.13          | 231              | 5.87        |
| 1       | 8/19/2009 | 4:15:00  | 22.08          | 232              | 5.88        |
| 1       | 8/19/2009 | 4:30:00  | 22.06          | 233              | 5.94        |
| 1       | 8/19/2009 | 4:45:00  | 22.04          | 233              | 5.89        |
| 1       | 8/19/2009 | 5:00:00  | 22.03          | 233              | 5.9         |
| 1       | 8/19/2009 | 5:15:00  | 22.01          | 234              | 5.91        |
| 1       | 8/19/2009 | 5:30:00  | 22             | 233              | 5.95        |
| 1       | 8/19/2009 | 5:45:00  | 21.97          | 234              | 5.9         |
| 1       | 8/19/2009 | 6:00:00  | 21.97          | 234              | 5.88        |
| 1       | 8/19/2009 | 6:15:00  | 21.95          | 235              | 5.95        |
| 1       | 8/19/2009 | 6:30:00  | 21.92          | 236              | 5.94        |
| 1       | 8/19/2009 | 6:45:00  | 21.92          | 236              | 5.92        |
| 1       | 8/19/2009 | 7:00:00  | 21.91          | 237              | 5.92        |
| 1       | 8/19/2009 | 7:15:00  | 21.91          | 237              | 5.94        |

| Station | Date      | Time     | Temperature °C | Sp.Cond<br>µs/cm | oDO<br>mg/L |
|---------|-----------|----------|----------------|------------------|-------------|
| 1       | 8/19/2009 | 7:30:00  | 21.91          | 237              | 5.9         |
| 1       | 8/19/2009 | 7:45:00  | 21.9           | 237              | 5.89        |
| 1       | 8/19/2009 | 8:00:00  | 21.86          | 237              | 5.97        |
| 1       | 8/19/2009 | 8:15:00  | 21.85          | 236              | 6           |
| 1       | 8/19/2009 | 8:30:00  | 21.86          | 236              | 5.92        |
| 1       | 8/19/2009 | 8:45:00  | 21.9           | 237              | 6.05        |
| 1       | 8/19/2009 | 9:00:00  | 21.88          | 237              | 6.04        |
| 1       | 8/19/2009 | 9:15:00  | 21.92          | 237              | 6.04        |
| 1       | 8/19/2009 | 9:30:00  | 21.9           | 232              | 6.13        |
| 1       | 8/19/2009 | 9:45:00  | 21.96          | 230              | 6.15        |
| 1       | 8/19/2009 | 10:00:00 | 21.96          | 232              | 6.17        |
| 1       | 8/19/2009 | 10:15:00 | 21.95          | 232              | 6.14        |
| 1       | 8/19/2009 | 10:30:00 | 22             | 233              | 6.11        |
| 1       | 8/19/2009 | 10:45:00 | 22.02          | 234              | 6.04        |
| 1       | 8/19/2009 | 11:00:00 | 22.08          | 235              | 6.11        |
| 1       | 8/19/2009 | 11:15:00 | 22.2           | 235              | 6.2         |
| 1       | 8/19/2009 | 11:30:00 | 22.52          | 237              | 6.36        |
| 1       | 8/19/2009 | 11:45:00 | 22.65          | 237              | 6.37        |
| 1       | 8/19/2009 | 12:00:00 | 22.79          | 237              | 6.42        |
| 1       | 8/19/2009 | 12:15:00 | 22.99          | 237              | 6.59        |
| 1       | 8/19/2009 | 12:30:00 | 23.09          | 237              | 6.61        |
| 1       | 8/19/2009 | 12:45:00 | 23.26          | 237              | 6.6         |
| 1       | 8/19/2009 | 13:00:00 | 23.28          | 237              | 6.69        |
| 1       | 8/19/2009 | 13:15:00 | 23.46          | 237              | 6.79        |
| 1       | 8/19/2009 | 13:30:00 | 23.67          | 239              | 6.82        |
| 1       | 8/19/2009 | 13:45:00 | 23.74          | 238              | 6.74        |
| 1       | 8/19/2009 | 14:00:00 | 23.84          | 240              | 6.87        |
| 1       | 8/19/2009 | 14:15:00 | 23.86          | 240              | 6.81        |
| 1       | 8/19/2009 | 14:30:00 | 24             | 239              | 6.91        |
| 1       | 8/19/2009 | 14:45:00 | 24.1           | 240              | 6.96        |
| 1       | 8/19/2009 | 15:00:00 | 24.14          | 238              | 6.85        |
| 1       | 8/19/2009 | 15:15:00 | 24.11          | 238              | 6.94        |
| 1       | 8/19/2009 | 15:30:00 | 24.31          | 241              | 6.99        |
| 1       | 8/19/2009 | 15:45:00 | 24.39          | 241              | 7.04        |
| 1       | 8/19/2009 | 16:00:00 | 24.33          | 240              | 6.83        |
| 1       | 8/19/2009 | 16:15:00 | 24.26          | 238              | 6.87        |
| 1       | 8/19/2009 | 16:30:00 | 24.18          | 239              | 6.82        |
| 1       | 8/19/2009 | 16:45:00 | 24.17          | 239              | 6.82        |
| 1       | 8/19/2009 | 17:00:00 | 24.13          | 239              | 6.71        |
| 1       | 8/19/2009 | 17:15:00 | 24.07          | 239              | 6.62        |
| 1       | 8/19/2009 | 17:30:00 | 24.04          | 241              | 6.61        |
| 1       | 8/19/2009 | 17:45:00 | 23.97          | 241              | 6.57        |
| 1       | 8/19/2009 | 18:00:00 | 23.91          | 241              | 6.49        |
| 1       | 8/19/2009 | 18:15:00 | 23.86          | 242              | 6.47        |
| 1       | 8/19/2009 | 18:30:00 | 23.81          | 242              | 6.4         |
| 1       | 8/19/2009 | 18:45:00 | 23.78          | 243              | 6.35        |

| Station | Date      | Time     | Temperature °C | Sp.Cond<br>µs/cm | oDO<br>mg/L |
|---------|-----------|----------|----------------|------------------|-------------|
| 1       | 8/19/2009 | 19:00:00 | 23.7           | 244              | 6.27        |
| 1       | 8/19/2009 | 19:15:00 | 23.62          | 244              | 6.27        |
| 1       | 8/19/2009 | 19:30:00 | 23.53          | 248              | 6.18        |
| 1       | 8/19/2009 | 19:45:00 | 23.47          | 247              | 6.15        |
| 1       | 8/19/2009 | 20:00:00 | 23.39          | 250              | 6.07        |
| 1       | 8/19/2009 | 20:15:00 | 23.33          | 252              | 6.07        |
| 1       | 8/19/2009 | 20:30:00 | 23.16          | 257              | 6.17        |
| 1       | 8/19/2009 | 20:45:00 | 23.05          | 252              | 6.25        |
| 1       | 8/19/2009 | 21:00:00 | 22.93          | 241              | 6.16        |
| 1       | 8/19/2009 | 21:15:00 | 22.93          | 250              | 6.05        |
| 1       | 8/19/2009 | 21:30:00 | 22.9           | 250              | 6.06        |
| 1       | 8/19/2009 | 21:45:00 | 22.8           | 254              | 5.83        |
| 1       | 8/19/2009 | 22:00:00 | 22.65          | 251              | 6.02        |
| 1       | 8/19/2009 | 22:15:00 | 22.53          | 248              | 6.08        |
| 1       | 8/19/2009 | 22:30:00 | 22.45          | 247              | 6.18        |
| 1       | 8/19/2009 | 22:45:00 | 22.36          | 243              | 6.09        |
| 1       | 8/19/2009 | 23:00:00 | 22.26          | 237              | 6.16        |
| 1       | 8/19/2009 | 23:15:00 | 22.23          | 240              | 5.98        |
| 1       | 8/19/2009 | 23:30:00 | 22.21          | 242              | 6           |
| 1       | 8/19/2009 | 23:45:00 | 22.17          | 243              | 5.96        |
| 1       | 8/20/2009 | 0:00:00  | 21.39          | 173              | 6.6         |
| 1       | 8/20/2009 | 0:15:00  | 21.28          | 173              | 6.7         |
| 1       | 8/20/2009 | 0:30:00  | 21.52          | 181              | 6.44        |
| 1       | 8/20/2009 | 0:45:00  | 21.56          | 197              | 6.49        |
| 1       | 8/20/2009 | 1:00:00  | 21.5           | 227              | 6.61        |
| 1       | 8/20/2009 | 1:15:00  | 21.23          | 203              | 6.67        |
| 1       | 8/20/2009 | 1:30:00  | 21.16          | 198              | 6.66        |
| 1       | 8/20/2009 | 1:45:00  | 21.15          | 201              | 6.67        |
| 1       | 8/20/2009 | 2:00:00  | 21.12          | 201              | 6.71        |
| 1       | 8/20/2009 | 2:15:00  | 21.18          | 213              | 6.66        |
| 1       | 8/20/2009 | 2:30:00  | 21.2           | 218              | 6.7         |
| 1       | 8/20/2009 | 2:45:00  | 21.26          | 223              | 6.61        |
| 1       | 8/20/2009 | 3:00:00  | 21.28          | 225              | 6.59        |
| 1       | 8/20/2009 | 3:15:00  | 21.29          | 229              | 6.54        |
| 1       | 8/20/2009 | 3:30:00  | 21.35          | 240              | 6.51        |
| 1       | 8/20/2009 | 3:45:00  | 21.18          | 229              | 6.57        |
| 1       | 8/20/2009 | 4:00:00  | 21.13          | 231              | 6.56        |
| 1       | 8/20/2009 | 4:15:00  | 21.09          | 236              | 6.54        |
| 1       | 8/20/2009 | 4:30:00  | 21.03          | 241              | 6.54        |
| 1       | 8/20/2009 | 4:45:00  | 20.96          | 245              | 6.56        |
| 1       | 8/20/2009 | 5:00:00  | 20.94          | 247              | 6.57        |
| 1       | 8/20/2009 | 5:15:00  | 20.84          | 235              | 6.6         |
| 1       | 8/20/2009 | 5:30:00  | 20.83          | 228              | 6.6         |
| 1       | 8/20/2009 | 5:45:00  | 20.81          | 233              | 6.66        |
| 1       | 8/20/2009 | 6:00:00  | 20.81          | 242              | 6.66        |
| 1       | 8/20/2009 | 6:15:00  | 20.79          | 249              | 6.66        |

| Station | Date      | Time     | Temperature °C | Sp.Cond<br>µs/cm | oDO<br>mg/L |
|---------|-----------|----------|----------------|------------------|-------------|
| 1       | 8/20/2009 | 6:30:00  | 20.76          | 252              | 6.67        |
| 1       | 8/20/2009 | 6:45:00  | 20.69          | 249              | 6.68        |
| 1       | 8/20/2009 | 7:00:00  | 20.6           | 241              | 6.73        |
| 1       | 8/20/2009 | 7:15:00  | 20.54          | 230              | 6.73        |
| 1       | 8/20/2009 | 7:30:00  | 20.48          | 223              | 6.77        |
| 1       | 8/20/2009 | 7:45:00  | 20.46          | 221              | 6.77        |
| 1       | 8/20/2009 | 8:00:00  | 20.43          | 225              | 6.79        |
| 1       | 8/20/2009 | 8:15:00  | 20.42          | 232              | 6.81        |
| 1       | 8/20/2009 | 8:30:00  | 20.41          | 237              | 6.82        |
| 1       | 8/20/2009 | 8:45:00  | 20.43          | 249              | 6.84        |
| 1       | 8/20/2009 | 9:00:00  | 20.46          | 259              | 6.83        |
| 1       | 8/20/2009 | 9:15:00  | 20.49          | 268              | 6.87        |
| 1       | 8/20/2009 | 9:30:00  | 20.54          | 275              | 6.87        |
| 1       | 8/20/2009 | 9:45:00  | 20.58          | 278              | 6.85        |
| 1       | 8/20/2009 | 10:00:00 | 20.67          | 282              | 6.87        |
| 1       | 8/20/2009 | 10:15:00 | 20.69          | 281              | 6.91        |
| 1       | 8/20/2009 | 10:30:00 | 20.7           | 279              | 6.88        |
| 1       | 8/20/2009 | 10:45:00 | 20.71          | 276              | 6.89        |
| 1       | 8/20/2009 | 11:00:00 | 20.7           | 273              | 6.89        |
| 1       | 8/20/2009 | 11:15:00 | 20.73          | 269              | 6.85        |
| 1       | 8/20/2009 | 11:30:00 | 20.73          | 267              | 6.84        |
| 1       | 8/20/2009 | 11:45:00 | 20.79          | 265              | 6.82        |
| 1       | 8/20/2009 | 12:00:00 | 20.81          | 262              | 6.83        |
| 1       | 8/20/2009 | 12:15:00 | 20.96          | 259              | 6.84        |
| 1       | 8/20/2009 | 12:30:00 | 21.09          | 256              | 6.86        |
| 1       | 8/20/2009 | 12:45:00 | 21.16          | 255              | 6.84        |
| 1       | 8/20/2009 | 13:00:00 | 21.35          | 253              | 6.82        |
| 1       | 8/20/2009 | 13:15:00 | 21.54          | 251              | 6.84        |
| 1       | 8/20/2009 | 13:30:00 | 21.71          | 252              | 6.87        |
| 1       | 8/20/2009 | 13:45:00 | 21.88          | 252              | 6.78        |
| 1       | 8/20/2009 | 14:00:00 | 22.17          | 253              | 6.85        |
| 1       | 8/20/2009 | 14:15:00 | 22.29          | 253              | 6.8         |
| 1       | 8/20/2009 | 14:30:00 | 22.38          | 253              | 6.8         |
| 1       | 8/20/2009 | 14:45:00 | 22.52          | 253              | 6.74        |
| 1       | 8/20/2009 | 15:00:00 | 22.65          | 254              | 6.8         |
| 1       | 8/20/2009 | 15:15:00 | 22.84          | 256              | 6.74        |
| 1       | 8/20/2009 | 15:30:00 | 22.92          | 256              | 6.7         |
| 1       | 8/20/2009 | 15:45:00 | 23.08          | 259              | 6.73        |
| 1       | 8/20/2009 | 16:00:00 | 23.14          | 261              | 6.76        |
| 1       | 8/20/2009 | 16:15:00 | 23.15          | 260              | 6.66        |
| 1       | 8/20/2009 | 16:30:00 | 23.16          | 262              | 6.7         |
| 1       | 8/20/2009 | 16:45:00 | 23.16          | 262              | 6.66        |
| 1       | 8/20/2009 | 17:00:00 | 23.11          | 262              | 6.58        |
| 1       | 8/20/2009 | 17:15:00 | 23.07          | 261              | 6.56        |
| 1       | 8/20/2009 | 17:30:00 | 22.98          | 262              | 6.59        |
| 1       | 8/20/2009 | 17:45:00 | 22.83          | 264              | 6.61        |

| Station | Date      | Time     | Temperature °C | Sp.Cond<br>µs/cm | oDO<br>mg/L |
|---------|-----------|----------|----------------|------------------|-------------|
| 1       | 8/20/2009 | 18:00:00 | 22.72          | 265              | 6.6         |
| 1       | 8/20/2009 | 18:15:00 | 22.69          | 265              | 6.57        |
| 1       | 8/20/2009 | 18:30:00 | 22.59          | 264              | 6.55        |
| 1       | 8/20/2009 | 18:45:00 | 22.43          | 264              | 6.54        |
| 1       | 8/20/2009 | 19:00:00 | 22.33          | 263              | 6.52        |
| 1       | 8/20/2009 | 19:15:00 | 22.25          | 263              | 6.5         |
| 1       | 8/20/2009 | 19:30:00 | 22.15          | 262              | 6.49        |
| 1       | 8/20/2009 | 19:45:00 | 22.06          | 261              | 6.49        |
| 1       | 8/20/2009 | 20:00:00 | 21.98          | 261              | 6.44        |
| 1       | 8/20/2009 | 20:15:00 | 21.87          | 259              | 6.42        |
| 1       | 8/20/2009 | 20:30:00 | 21.84          | 259              | 6.42        |
| 1       | 8/20/2009 | 20:45:00 | 21.77          | 259              | 6.4         |
| 1       | 8/20/2009 | 21:00:00 | 21.74          | 258              | 6.26        |
| 1       | 8/20/2009 | 21:15:00 | 21.62          | 257              | 6.33        |
| 1       | 8/20/2009 | 21:30:00 | 21.55          | 256              | 6.31        |
| 1       | 8/20/2009 | 21:45:00 | 21.5           | 257              | 6.32        |
| 1       | 8/20/2009 | 22:00:00 | 21.47          | 256              | 6.14        |
| 1       | 8/20/2009 | 22:15:00 | 21.41          | 256              | 6.21        |
| 1       | 8/20/2009 | 22:30:00 | 21.32          | 255              | 6.22        |
| 1       | 8/20/2009 | 22:45:00 | 21.32          | 255              | 6.1         |
| 1       | 8/20/2009 | 23:00:00 | 21.22          | 254              | 6.31        |
| 1       | 8/20/2009 | 23:15:00 | 21.17          | 247              | 6.29        |
| 1       | 8/20/2009 | 23:30:00 | 21.13          | 253              | 6.31        |
| 1       | 8/20/2009 | 23:45:00 | 21.04          | 252              | 6.29        |
| 1       | 8/21/2009 | 0:00:00  | 21             | 251              | 6.35        |
| 1       | 8/21/2009 | 0:15:00  | 20.96          | 251              | 6.28        |
| 1       | 8/21/2009 | 0:30:00  | 20.92          | 250              | 6.27        |
| 1       | 8/21/2009 | 0:45:00  | 20.87          | 250              | 6.27        |
| 1       | 8/21/2009 | 1:00:00  | 20.8           | 248              | 6.35        |
| 1       | 8/21/2009 | 1:15:00  | 20.75          | 248              | 6.29        |
| 1       | 8/21/2009 | 1:30:00  | 20.7           | 248              | 6.24        |
| 1       | 8/21/2009 | 1:45:00  | 20.7           | 248              | 6.28        |
| 1       | 8/21/2009 | 2:00:00  | 20.61          | 247              | 6.29        |
| 1       | 8/21/2009 | 2:15:00  | 20.57          | 246              | 6.25        |
| 1       | 8/21/2009 | 2:30:00  | 20.56          | 247              | 6.19        |
| 1       | 8/21/2009 | 2:45:00  | 20.49          | 246              | 6.26        |
| 1       | 8/21/2009 | 3:00:00  | 20.42          | 245              | 6.3         |
| 1       | 8/21/2009 | 3:15:00  | 20.4           | 245              | 6.22        |
| 1       | 8/21/2009 | 3:30:00  | 20.33          | 245              | 6.33        |
| 1       | 8/21/2009 | 3:45:00  | 20.3           | 245              | 6.29        |
| 1       | 8/21/2009 | 4:00:00  | 20.27          | 245              | 6.23        |
| 1       | 8/21/2009 | 4:15:00  | 20.21          | 245              | 6.29        |
| 1       | 8/21/2009 | 4:30:00  | 20.19          | 244              | 6.25        |
| 1       | 8/21/2009 | 4:45:00  | 20.14          | 245              | 6.25        |
| 1       | 8/21/2009 | 5:00:00  | 20.09          | 244              | 6.36        |
| 1       | 8/21/2009 | 5:15:00  | 20.05          | 244              | 6.31        |

| Station | Date      | Time     | Temperature °C | Sp.Cond<br>µs/cm | oDO<br>mg/L |
|---------|-----------|----------|----------------|------------------|-------------|
| 1       | 8/21/2009 | 5:30:00  | 20             | 245              | 6.25        |
| 1       | 8/21/2009 | 5:45:00  | 19.97          | 244              | 6.26        |
| 1       | 8/21/2009 | 6:00:00  | 19.95          | 245              | 6.27        |
| 1       | 8/21/2009 | 6:15:00  | 19.92          | 245              | 6.26        |
| 1       | 8/21/2009 | 6:30:00  | 19.87          | 245              | 6.26        |
| 1       | 8/21/2009 | 6:45:00  | 19.83          | 245              | 6.23        |
| 1       | 8/21/2009 | 7:00:00  | 19.82          | 245              | 6.22        |
| 1       | 8/21/2009 | 7:15:00  | 19.77          | 246              | 6.2         |
| 1       | 8/21/2009 | 7:30:00  | 19.74          | 246              | 6.29        |
| 1       | 8/21/2009 | 7:45:00  | 19.7           | 246              | 6.25        |
| 1       | 8/21/2009 | 8:00:00  | 19.7           | 246              | 6.28        |
| 1       | 8/21/2009 | 8:15:00  | 19.66          | 247              | 6.29        |
| 1       | 8/21/2009 | 8:30:00  | 19.66          | 247              | 6.27        |
| 1       | 8/21/2009 | 8:45:00  | 19.7           | 247              | 6.31        |
| 1       | 8/21/2009 | 9:00:00  | 19.71          | 248              | 6.31        |
| 1       | 8/21/2009 | 9:15:00  | 19.73          | 248              | 6.37        |
| 1       | 8/21/2009 | 9:30:00  | 19.85          | 248              | 6.37        |
| 1       | 8/21/2009 | 9:45:00  | 19.9           | 249              | 6.38        |
| 1       | 8/21/2009 | 10:00:00 | 19.98          | 249              | 6.46        |
| 1       | 8/21/2009 | 10:15:00 | 20.11          | 249              | 6.51        |
| 1       | 8/21/2009 | 10:30:00 | 20.24          | 249              | 6.57        |
| 1       | 8/21/2009 | 10:45:00 | 20.43          | 250              | 6.62        |
| 1       | 8/21/2009 | 11:00:00 | 20.59          | 250              | 6.69        |
| 1       | 8/21/2009 | 11:15:00 | 20.91          | 250              | 6.83        |
| 1       | 8/21/2009 | 11:30:00 | 21.06          | 251              | 6.87        |
| 1       | 8/21/2009 | 11:45:00 | 21.36          | 251              | 6.93        |
| 1       | 8/21/2009 | 12:00:00 | 21.62          | 252              | 6.91        |
| 1       | 8/21/2009 | 12:15:00 | 21.78          | 252              | 6.98        |
| 1       | 8/21/2009 | 12:30:00 | 22.16          | 252              | 7.05        |
| 1       | 8/21/2009 | 12:45:00 | 22.35          | 253              | 7           |
| 1       | 8/21/2009 | 13:00:00 | 22.58          | 253              | 7.1         |
| 1       | 8/21/2009 | 13:15:00 | 22.85          | 254              | 7.16        |
| 1       | 8/21/2009 | 13:30:00 | 23.01          | 254              | 7.18        |
| 1       | 8/21/2009 | 13:45:00 | 23.08          | 254              | 7.21        |
| 1       | 8/21/2009 | 14:00:00 | 23.26          | 255              | 7.19        |
| 1       | 8/21/2009 | 14:15:00 | 23.51          | 255              | 7.24        |
| 1       | 8/21/2009 | 14:30:00 | 23.68          | 255              | 7.23        |
| 1       | 8/21/2009 | 14:45:00 | 23.84          | 256              | 7.22        |
| 1       | 8/21/2009 | 15:00:00 | 23.82          | 256              | 7.05        |
| 1       | 8/21/2009 | 15:15:00 | 23.98          | 257              | 7.07        |
| 1       | 8/21/2009 | 15:30:00 | 23.92          | 257              | 6.93        |
| 1       | 8/21/2009 | 15:45:00 | 24.11          | 257              | 7.12        |
| 1       | 8/21/2009 | 16:00:00 | 24.19          | 258              | 7.12        |
| 1       | 8/21/2009 | 16:15:00 | 24.18          | 257              | 7.09        |
| 1       | 8/21/2009 | 16:30:00 | 24.29          | 258              | 6.98        |
| 1       | 8/21/2009 | 16:45:00 | 24.3           | 259              | 7.03        |

| Station | Date      | Time     | Temperature °C | Sp.Cond<br>µs/cm | oDO<br>mg/L |
|---------|-----------|----------|----------------|------------------|-------------|
| 1       | 8/21/2009 | 17:00:00 | 24.33          | 259              | 7.06        |
| 1       | 8/21/2009 | 17:15:00 | 24.22          | 260              | 6.88        |
| 1       | 8/21/2009 | 17:30:00 | 24.15          | 261              | 6.86        |
| 1       | 8/21/2009 | 17:45:00 | 24.2           | 261              | 6.81        |
| 1       | 8/21/2009 | 18:00:00 | 24.2           | 260              | 6.81        |
| 1       | 8/21/2009 | 18:15:00 | 24.17          | 260              | 6.75        |
| 1       | 8/21/2009 | 18:30:00 | 24.08          | 262              | 6.72        |
| 1       | 8/21/2009 | 18:45:00 | 24             | 263              | 6.67        |
| 1       | 8/21/2009 | 19:00:00 | 23.92          | 263              | 6.68        |
| 1       | 8/21/2009 | 19:15:00 | 23.83          | 264              | 6.54        |
| 1       | 8/21/2009 | 19:30:00 | 23.7           | 264              | 6.47        |
| 1       | 8/21/2009 | 19:45:00 | 23.6           | 264              | 6.44        |
| 1       | 8/21/2009 | 20:00:00 | 23.48          | 265              | 6.38        |
| 1       | 8/21/2009 | 20:15:00 | 23.36          | 265              | 6.29        |
| 1       | 8/21/2009 | 20:30:00 | 23.26          | 266              | 6.24        |
| 1       | 8/21/2009 | 20:45:00 | 23.08          | 266              | 6.2         |
| 1       | 8/21/2009 | 21:00:00 | 22.9           | 266              | 6.17        |
| 1       | 8/21/2009 | 21:15:00 | 22.83          | 267              | 6.09        |
| 1       | 8/21/2009 | 21:30:00 | 22.66          | 267              | 6.08        |
| 1       | 8/21/2009 | 21:45:00 | 22.5           | 267              | 6.04        |
| 1       | 8/21/2009 | 22:00:00 | 22.39          | 268              | 5.99        |
| 1       | 8/21/2009 | 22:15:00 | 22.15          | 268              | 6.02        |
| 1       | 8/21/2009 | 22:30:00 | 22.04          | 263              | 6.01        |
| 1       | 8/21/2009 | 22:45:00 | 21.93          | 269              | 5.98        |
| 1       | 8/21/2009 | 23:00:00 | 21.93          | 269              | 5.81        |
| 1       | 8/21/2009 | 23:15:00 | 21.69          | 270              | 5.83        |
| 1       | 8/21/2009 | 23:30:00 | 21.48          | 270              | 5.38        |
| 1       | 8/21/2009 | 23:45:00 | 21.46          | 269              | 5.69        |
| 1       | 8/22/2009 | 0:00:00  | 21.32          | 271              | 5.76        |
| 1       | 8/22/2009 | 0:15:00  | 21.29          | 271              | 5.65        |
| 1       | 8/22/2009 | 0:30:00  | 21.06          | 271              | 5.8         |
| 1       | 8/22/2009 | 0:45:00  | 20.98          | 270              | 5.87        |
| 1       | 8/22/2009 | 1:00:00  | 20.9           | 271              | 5.61        |
| 1       | 8/22/2009 | 1:15:00  | 20.77          | 273              | 5.72        |
| 1       | 8/22/2009 | 1:30:00  | 20.7           | 273              | 5.79        |
| 1       | 8/22/2009 | 1:45:00  | 20.59          | 273              | 5.81        |
| 1       | 8/22/2009 | 2:00:00  | 20.49          | 273              | 5.81        |
| 1       | 8/22/2009 | 2:15:00  | 20.34          | 274              | 5.82        |
| 1       | 8/22/2009 | 2:30:00  | 20.39          | 274              | 5.77        |
| 1       | 8/22/2009 | 2:45:00  | 20.15          | 275              | 5.89        |
| 1       | 8/22/2009 | 3:00:00  | 20.2           | 274              | 5.83        |
| 1       | 8/22/2009 | 3:15:00  | 20             | 276              | 5.91        |
| 1       | 8/22/2009 | 3:30:00  | 19.89          | 276              | 5.87        |
| 1       | 8/22/2009 | 3:45:00  | 19.79          | 277              | 5.95        |
| 1       | 8/22/2009 | 4:00:00  | 19.73          | 277              | 5.88        |
| 1       | 8/22/2009 | 4:15:00  | 19.64          | 277              | 5.93        |

| Station | Date      | Time     | Temperature °C | Sp.Cond<br>µs/cm | oDO<br>mg/L |
|---------|-----------|----------|----------------|------------------|-------------|
| 1       | 8/22/2009 | 4:30:00  | 19.51          | 277              | 5.99        |
| 1       | 8/22/2009 | 4:45:00  | 19.46          | 278              | 5.97        |
| 1       | 8/22/2009 | 5:00:00  | 19.4           | 278              | 5.98        |
| 1       | 8/22/2009 | 5:15:00  | 19.26          | 278              | 6.06        |
| 1       | 8/22/2009 | 5:30:00  | 19.21          | 279              | 6.02        |
| 1       | 8/22/2009 | 5:45:00  | 19.13          | 280              | 6.05        |
| 1       | 8/22/2009 | 6:00:00  | 19.1           | 280              | 6.05        |
| 1       | 8/22/2009 | 6:15:00  | 19.04          | 280              | 6.03        |
| 1       | 8/22/2009 | 6:30:00  | 18.97          | 280              | 6.08        |
| 1       | 8/22/2009 | 6:45:00  | 18.9           | 281              | 6.06        |
| 1       | 8/22/2009 | 7:00:00  | 18.85          | 280              | 6.08        |
| 1       | 8/22/2009 | 7:15:00  | 18.76          | 282              | 6.11        |
| 1       | 8/22/2009 | 7:30:00  | 18.74          | 282              | 6.15        |
| 1       | 8/22/2009 | 7:45:00  | 18.73          | 282              | 6.11        |
| 1       | 8/22/2009 | 8:00:00  | 18.69          | 282              | 6.15        |
| 1       | 8/22/2009 | 8:15:00  | 18.66          | 283              | 6.2         |
| 1       | 8/22/2009 | 8:30:00  | 18.64          | 283              | 6.19        |
| 1       | 8/22/2009 | 8:45:00  | 18.67          | 283              | 6.2         |
| 1       | 8/22/2009 | 9:00:00  | 18.65          | 284              | 6.19        |
| 1       | 8/22/2009 | 9:15:00  | 18.67          | 284              | 6.3         |
| 1       | 8/22/2009 | 9:30:00  | 18.73          | 284              | 6.34        |
| 1       | 8/22/2009 | 9:45:00  | 18.88          | 284              | 6.43        |
| 1       | 8/22/2009 | 10:00:00 | 18.98          | 285              | 6.46        |
| 1       | 8/22/2009 | 10:15:00 | 19.11          | 284              | 6.45        |
| 1       | 8/22/2009 | 10:30:00 | 19.19          | 285              | 6.48        |
| 1       | 8/22/2009 | 10:45:00 | 19.32          | 285              | 6.52        |
| 1       | 8/22/2009 | 11:00:00 | 19.42          | 286              | 6.57        |
| 1       | 8/22/2009 | 11:15:00 | 19.56          | 286              | 6.65        |
| 1       | 8/22/2009 | 11:30:00 | 19.74          | 286              | 6.77        |
| 1       | 8/22/2009 | 11:45:00 | 19.88          | 286              | 6.89        |
| 1       | 8/22/2009 | 12:00:00 | 20.16          | 286              | 6.86        |
| 1       | 8/22/2009 | 12:15:00 | 20.11          | 287              | 6.61        |
| 1       | 8/22/2009 | 12:30:00 | 20.65          | 287              | 6.84        |
| 1       | 8/22/2009 | 12:45:00 | 20.18          | 288              | 6.69        |
| 1       | 8/22/2009 | 13:00:00 | 20.82          | 287              | 6.76        |
| 1       | 8/22/2009 | 13:15:00 | 19.87          | 288              | 6.38        |
| 1       | 8/22/2009 | 13:30:00 | 20.04          | 288              | 6.18        |
| 1       | 8/22/2009 | 13:45:00 | 20.09          | 288              | 6.35        |
| 1       | 8/22/2009 | 14:00:00 | 20.11          | 287              | 6.36        |
| 1       | 8/22/2009 | 14:15:00 | 20.16          | 287              | 6.41        |
| 1       | 8/22/2009 | 14:30:00 | 20.34          | 288              | 6.45        |
| 1       | 8/22/2009 | 14:45:00 | 20.44          | 288              | 6.46        |
| 1       | 8/22/2009 | 15:00:00 | 20.46          | 287              | 6.34        |
| 1       | 8/22/2009 | 15:15:00 | 20.6           | 288              | 6.38        |
| 1       | 8/22/2009 | 15:30:00 | 20.65          | 288              | 6.5         |
| 1       | 8/22/2009 | 15:45:00 | 20.7           | 288              | 6.39        |

| Station | Date      | Time     | Temperature °C | Sp.Cond<br>µs/cm | oDO<br>mg/L |
|---------|-----------|----------|----------------|------------------|-------------|
| 1       | 8/22/2009 | 16:00:00 | 20.72          | 288              | 6.51        |
| 1       | 8/22/2009 | 16:15:00 | 20.94          | 288              | 6.38        |
| 1       | 8/22/2009 | 16:30:00 | 21.02          | 288              | 6.46        |
| 1       | 8/22/2009 | 16:45:00 | 20.91          | 288              | 6.36        |
| 1       | 8/22/2009 | 17:00:00 | 21.12          | 288              | 6.38        |
| 1       | 8/22/2009 | 17:15:00 | 21.11          | 288              | 6.36        |
| 1       | 8/22/2009 | 17:30:00 | 21.32          | 287              | 6.09        |
| 1       | 8/22/2009 | 17:45:00 | 21.52          | 288              | 6.02        |
| 1       | 8/22/2009 | 18:00:00 | 21.65          | 292              | 6.03        |
| 1       | 8/22/2009 | 18:15:00 | 22.87          | 290              | 6.86        |
| 1       | 8/22/2009 | 18:30:00 | 23             | 285              | 6.96        |
| 1       | 8/22/2009 | 18:45:00 | 22.51          | 295              | 7.28        |
| 1       | 8/22/2009 | 19:00:00 | 22.47          | 295              | 7.2         |
| 1       | 8/22/2009 | 19:15:00 | 22.59          | 294              | 7.1         |
| 1       | 8/22/2009 | 19:30:00 | 22.67          | 295              | 7.09        |
| 1       | 8/22/2009 | 19:45:00 | 22.84          | 296              | 7.01        |
| 1       | 8/22/2009 | 20:00:00 | 22.79          | 296              | 7           |
| 1       | 8/22/2009 | 20:15:00 | 22.71          | 296              | 6.95        |
| 1       | 8/22/2009 | 20:30:00 | 22.53          | 294              | 6.88        |
| 1       | 8/22/2009 | 20:45:00 | 22.53          | 297              | 6.79        |
| 1       | 8/22/2009 | 21:00:00 | 22.44          | 297              | 6.67        |
| 1       | 8/22/2009 | 21:15:00 | 22.27          | 298              | 6.61        |
| 1       | 8/22/2009 | 21:30:00 | 22.28          | 298              | 6.5         |
| 1       | 8/22/2009 | 21:45:00 | 22.24          | 298              | 6.42        |
| 1       | 8/22/2009 | 22:00:00 | 22.18          | 298              | 6.39        |
| 1       | 8/22/2009 | 22:15:00 | 22.09          | 298              | 6.33        |
| 1       | 8/22/2009 | 22:30:00 | 22.08          | 298              | 6.27        |
| 1       | 8/22/2009 | 22:45:00 | 22             | 299              | 6.23        |
| 1       | 8/22/2009 | 23:00:00 | 21.95          | 299              | 6.17        |
| 1       | 8/22/2009 | 23:15:00 | 21.91          | 300              | 6.14        |
| 1       | 8/22/2009 | 23:30:00 | 21.81          | 300              | 6.11        |
| 1       | 8/22/2009 | 23:45:00 | 21.74          | 300              | 6.05        |
| 1       | 8/23/2009 | 0:00:00  | 21.71          | 301              | 6.04        |
| 1       | 8/23/2009 | 0:15:00  | 21.62          | 301              | 6.01        |
| 1       | 8/23/2009 | 0:30:00  | 21.49          | 302              | 5.98        |
| 1       | 8/23/2009 | 0:45:00  | 21.41          | 302              | 5.98        |
| 1       | 8/23/2009 | 1:00:00  | 21.35          | 303              | 5.92        |
| 1       | 8/23/2009 | 1:15:00  | 21.22          | 302              | 5.9         |
| 1       | 8/23/2009 | 1:30:00  | 21.14          | 303              | 5.85        |
| 1       | 8/23/2009 | 1:45:00  | 21.1           | 303              | 5.77        |
| 1       | 8/23/2009 | 2:00:00  | 21             | 303              | 5.76        |
| 1       | 8/23/2009 | 2:15:00  | 20.87          | 304              | 5.81        |
| 1       | 8/23/2009 | 2:30:00  | 20.73          | 305              | 5.8         |
| 1       | 8/23/2009 | 2:45:00  | 20.63          | 305              | 5.58        |
| 1       | 8/23/2009 | 3:00:00  | 20.61          | 305              | 5.75        |
| 1       | 8/23/2009 | 3:15:00  | 20.52          | 305              | 5.35        |

| Station | Date      | Time     | Temperature °C | Sp.Cond<br>µs/cm | oDO<br>mg/L |
|---------|-----------|----------|----------------|------------------|-------------|
| 1       | 8/23/2009 | 3:30:00  | 20.35          | 306              | 5.43        |
| 1       | 8/23/2009 | 3:45:00  | 20.21          | 306              | 5.62        |
| 1       | 8/23/2009 | 4:00:00  | 20.24          | 306              | 5.57        |
| 1       | 8/23/2009 | 4:15:00  | 20.02          | 307              | 5.77        |
| 1       | 8/23/2009 | 4:30:00  | 20             | 307              | 5.62        |
| 1       | 8/23/2009 | 4:45:00  | 19.92          | 307              | 5.55        |
| 1       | 8/23/2009 | 5:00:00  | 19.73          | 308              | 5.74        |
| 1       | 8/23/2009 | 5:15:00  | 19.68          | 308              | 5.88        |
| 1       | 8/23/2009 | 5:30:00  | 19.67          | 308              | 5.73        |
| 1       | 8/23/2009 | 5:45:00  | 19.57          | 308              | 5.76        |
| 1       | 8/23/2009 | 6:00:00  | 19.51          | 308              | 5.81        |
| 1       | 8/23/2009 | 6:15:00  | 19.4           | 308              | 5.77        |
| 1       | 8/23/2009 | 6:30:00  | 19.37          | 309              | 5.78        |
| 1       | 8/23/2009 | 6:45:00  | 19.2           | 310              | 5.87        |
| 1       | 8/23/2009 | 7:00:00  | 19.1           | 309              | 5.82        |
| 1       | 8/23/2009 | 7:15:00  | 19.05          | 310              | 5.89        |
| 1       | 8/23/2009 | 7:30:00  | 18.97          | 310              | 5.85        |
| 1       | 8/23/2009 | 7:45:00  | 18.92          | 310              | 5.86        |
| 1       | 8/23/2009 | 8:00:00  | 18.87          | 311              | 5.92        |
| 1       | 8/23/2009 | 8:15:00  | 18.84          | 311              | 5.9         |
| 1       | 8/23/2009 | 8:30:00  | 18.79          | 311              | 5.91        |
| 1       | 8/23/2009 | 8:45:00  | 18.77          | 312              | 5.93        |
| 1       | 8/23/2009 | 9:00:00  | 18.76          | 312              | 5.95        |
| 1       | 8/23/2009 | 9:15:00  | 18.77          | 312              | 5.93        |
| 1       | 8/23/2009 | 9:30:00  | 18.83          | 313              | 5.94        |
| 1       | 8/23/2009 | 9:45:00  | 18.92          | 313              | 6.05        |
| 1       | 8/23/2009 | 10:00:00 | 18.96          | 313              | 6.03        |
| 1       | 8/23/2009 | 10:15:00 | 18.99          | 313              | 5.97        |
| 1       | 8/23/2009 | 10:30:00 | 19.05          | 313              | 5.97        |
| 1       | 8/23/2009 | 10:45:00 | 19.2           | 313              | 6.1         |
| 1       | 8/23/2009 | 11:00:00 | 19.31          | 314              | 6.28        |
| 1       | 8/23/2009 | 11:15:00 | 19.36          | 314              | 6.35        |
| 1       | 8/23/2009 | 11:30:00 | 19.47          | 314              | 6.41        |
| 1       | 8/23/2009 | 11:45:00 | 19.6           | 315              | 6.6         |
| 1       | 8/23/2009 | 12:00:00 | 19.74          | 315              | 6.78        |
| 1       | 8/23/2009 | 12:15:00 | 19.79          | 315              | 6.13        |
| 1       | 8/23/2009 | 12:30:00 | 20.03          | 316              | 6.93        |
| 1       | 8/23/2009 | 12:45:00 | 19.68          | 314              | 5.86        |
| 1       | 8/23/2009 | 13:00:00 | 19.37          | 315              | 5.84        |
| 1       | 8/23/2009 | 13:15:00 | 19.48          | 315              | 5.78        |
| 1       | 8/23/2009 | 13:30:00 | 19.47          | 315              | 5.76        |
| 1       | 8/23/2009 | 13:45:00 | 19.59          | 315              | 5.82        |
| 1       | 8/23/2009 | 14:00:00 | 19.65          | 316              | 5.98        |
| 1       | 8/23/2009 | 14:15:00 | 19.79          | 316              | 6.11        |
| 1       | 8/23/2009 | 14:30:00 | 19.79          | 315              | 5.97        |
| 1       | 8/23/2009 | 14:45:00 | 19.83          | 316              | 6.06        |

| Station | Date      | Time     | Temperature °C | Sp.Cond<br>µs/cm | oDO<br>mg/L |
|---------|-----------|----------|----------------|------------------|-------------|
| 1       | 8/23/2009 | 15:00:00 | 19.99          | 316              | 6.18        |
| 1       | 8/23/2009 | 15:15:00 | 20.09          | 315              | 6.29        |
| 1       | 8/23/2009 | 15:30:00 | 20.05          | 316              | 6.16        |
| 1       | 8/23/2009 | 15:45:00 | 20.11          | 316              | 6.39        |
| 1       | 8/23/2009 | 16:00:00 | 20.14          | 316              | 6.35        |
| 1       | 8/23/2009 | 16:15:00 | 20.31          | 317              | 6.31        |
| 1       | 8/23/2009 | 16:30:00 | 20.4           | 316              | 6.23        |
| 1       | 8/23/2009 | 16:45:00 | 20.44          | 317              | 6.13        |
| 1       | 8/23/2009 | 17:00:00 | 20.46          | 318              | 6.1         |
| 1       | 8/23/2009 | 17:15:00 | 20.53          | 316              | 6           |
| 1       | 8/23/2009 | 17:30:00 | 20.56          | 317              | 6.16        |
| 1       | 8/23/2009 | 17:45:00 | 20.62          | 318              | 6.09        |
| 1       | 8/23/2009 | 18:00:00 | 20.58          | 318              | 6.03        |
| 1       | 8/23/2009 | 18:15:00 | 20.61          | 317              | 5.94        |
| 1       | 8/23/2009 | 18:30:00 | 20.7           | 318              | 6           |
| 1       | 8/23/2009 | 18:45:00 | 20.73          | 318              | 5.96        |
| 1       | 8/23/2009 | 19:00:00 | 20.58          | 318              | 5.82        |
| 1       | 8/23/2009 | 19:15:00 | 20.76          | 319              | 5.71        |
| 1       | 8/23/2009 | 19:30:00 | 20.76          | 317              | 5.71        |
| 1       | 8/23/2009 | 19:45:00 | 20.78          | 318              | 5.91        |
| 1       | 8/23/2009 | 20:00:00 | 20.89          | 318              | 5.77        |
| 1       | 8/23/2009 | 20:15:00 | 20.92          | 319              | 5.82        |
| 1       | 8/23/2009 | 20:30:00 | 20.97          | 317              | 5.63        |
| 1       | 8/23/2009 | 20:45:00 | 21.12          | 317              | 5.83        |
| 1       | 8/23/2009 | 21:00:00 | 21.05          | 318              | 5.88        |
| 1       | 8/23/2009 | 21:15:00 | 21             | 318              | 5.85        |
| 1       | 8/23/2009 | 21:30:00 | 21.08          | 318              | 5.79        |
| 1       | 8/23/2009 | 21:45:00 | 21.13          | 319              | 5.58        |
| 1       | 8/23/2009 | 22:00:00 | 21.22          | 319              | 5.61        |
| 1       | 8/23/2009 | 22:15:00 | 22.27          | 321              | 6.16        |
| 1       | 8/23/2009 | 22:30:00 | 21.79          | 320              | 6.37        |
| 1       | 8/23/2009 | 22:45:00 | 22.17          | 321              | 6.38        |
| 1       | 8/23/2009 | 23:00:00 | 22.05          | 320              | 6.32        |
| 1       | 8/23/2009 | 23:15:00 | 21.91          | 321              | 6.32        |
| 1       | 8/23/2009 | 23:30:00 | 21.87          | 321              | 6.32        |
| 1       | 8/23/2009 | 23:45:00 | 21.26          | 320              | 6.28        |
| 1       | 8/24/2009 | 0:00:00  | 21.69          | 321              | 6.13        |
| 1       | 8/24/2009 | 0:15:00  | 21.55          | 321              | 6.1         |
| 1       | 8/24/2009 | 0:30:00  | 21.55          | 322              | 6.1         |
| 1       | 8/24/2009 | 0:45:00  | 21.49          | 322              | 6.06        |
| 1       | 8/24/2009 | 1:00:00  | 21.41          | 322              | 5.93        |
| 1       | 8/24/2009 | 1:15:00  | 21.33          | 322              | 5.96        |
| 1       | 8/24/2009 | 1:30:00  | 21.22          | 322              | 5.86        |
| 1       | 8/24/2009 | 1:45:00  | 21.21          | 322              | 6           |
| 1       | 8/24/2009 | 2:00:00  | 21.11          | 323              | 6           |
| 1       | 8/24/2009 | 2:15:00  | 21.07          | 322              | 5.94        |

| Station | Date      | Time     | Temperature °C | Sp.Cond<br>µs/cm | oDO<br>mg/L |
|---------|-----------|----------|----------------|------------------|-------------|
| 1       | 8/24/2009 | 2:30:00  | 21             | 323              | 5.88        |
| 1       | 8/24/2009 | 2:45:00  | 20.91          | 323              | 5.93        |
| 1       | 8/24/2009 | 3:00:00  | 20.82          | 323              | 5.89        |
| 1       | 8/24/2009 | 3:15:00  | 20.78          | 324              | 5.87        |
| 1       | 8/24/2009 | 3:30:00  | 20.69          | 324              | 5.87        |
| 1       | 8/24/2009 | 3:45:00  | 20.62          | 324              | 5.84        |
| 1       | 8/24/2009 | 4:00:00  | 20.56          | 324              | 5.85        |
| 1       | 8/24/2009 | 4:15:00  | 20.4           | 324              | 5.73        |
| 1       | 8/24/2009 | 4:30:00  | 20.34          | 324              | 5.62        |
| 1       | 8/24/2009 | 4:45:00  | 20.26          | 325              | 5.78        |
| 1       | 8/24/2009 | 5:00:00  | 20.15          | 325              | 5.57        |
| 1       | 8/24/2009 | 5:15:00  | 20.07          | 325              | 5.73        |
| 1       | 8/24/2009 | 5:30:00  | 19.97          | 325              | 5.75        |
| 1       | 8/24/2009 | 5:45:00  | 19.95          | 325              | 5.62        |
| 1       | 8/24/2009 | 6:00:00  | 19.8           | 325              | 5.73        |
| 1       | 8/24/2009 | 6:15:00  | 19.71          | 326              | 5.65        |
| 1       | 8/24/2009 | 6:30:00  | 19.63          | 326              | 5.69        |
| 1       | 8/24/2009 | 6:45:00  | 19.54          | 326              | 5.69        |
| 1       | 8/24/2009 | 7:00:00  | 19.47          | 327              | 5.65        |
| 1       | 8/24/2009 | 7:15:00  | 19.39          | 327              | 5.71        |
| 1       | 8/24/2009 | 7:30:00  | 19.31          | 327              | 5.71        |
| 1       | 8/24/2009 | 7:45:00  | 19.26          | 327              | 5.72        |
| 1       | 8/24/2009 | 8:00:00  | 19.22          | 328              | 5.74        |
| 1       | 8/24/2009 | 8:15:00  | 19.15          | 327              | 5.81        |
| 1       | 8/24/2009 | 8:30:00  | 19.12          | 328              | 5.77        |
| 1       | 8/24/2009 | 8:45:00  | 19.1           | 328              | 5.8         |
| 1       | 8/24/2009 | 9:00:00  | 19.07          | 328              | 5.83        |
| 1       | 8/24/2009 | 9:15:00  | 19.07          | 329              | 5.87        |
| 1       | 8/24/2009 | 9:30:00  | 19.08          | 330              | 5.92        |
| 1       | 8/24/2009 | 9:45:00  | 19.21          | 330              | 5.84        |
| 1       | 8/24/2009 | 10:00:00 | 19.26          | 331              | 5.93        |
| 1       | 8/24/2009 | 10:15:00 | 19.25          | 330              | 5.73        |
| 1       | 8/24/2009 | 10:30:00 | 19.31          | 328              | 5.75        |
| 1       | 8/24/2009 | 10:45:00 | 19.35          | 327              | 5.95        |
| 1       | 8/24/2009 | 11:00:00 | 19.39          | 329              | 5.77        |
| 1       | 8/24/2009 | 11:15:00 | 19.4           | 330              | 5.59        |
| 1       | 8/24/2009 | 11:30:00 | 19.55          | 326              | 6.02        |
| 1       | 8/24/2009 | 11:45:00 | 19.39          | 328              | 5.61        |
| 1       | 8/24/2009 | 12:00:00 | 19.45          | 328              | 5.69        |
| 1       | 8/24/2009 | 12:15:00 | 19.49          | 328              | 5.67        |
| 1       | 8/24/2009 | 12:30:00 | 19.62          | 326              | 6.03        |
| 1       | 8/24/2009 | 12:45:00 | 19.84          | 327              | 6.5         |
| 1       | 8/24/2009 | 13:00:00 | 19.46          | 329              | 5.64        |
| 1       | 8/24/2009 | 13:15:00 | 19.46          | 330              | 5.39        |
| 1       | 8/24/2009 | 13:30:00 | 19.55          | 329              | 5.39        |
| 1       | 8/24/2009 | 13:45:00 | 19.78          | 330              | 5.56        |

| Station | Date      | Time     | Temperature °C | Sp.Cond<br>µs/cm | oDO<br>mg/L |
|---------|-----------|----------|----------------|------------------|-------------|
| 1       | 8/24/2009 | 14:00:00 | 19.83          | 329              | 5.44        |
| 1       | 8/24/2009 | 14:15:00 | 19.81          | 329              | 5.68        |
| 1       | 8/24/2009 | 14:30:00 | 19.81          | 330              | 5.41        |
| 1       | 8/24/2009 | 14:45:00 | 19.91          | 328              | 5.55        |
| 1       | 8/24/2009 | 15:00:00 | 20.19          | 329              | 5.8         |
| 1       | 8/24/2009 | 15:15:00 | 20.13          | 330              | 5.53        |
| 1       | 8/24/2009 | 15:30:00 | 20.14          | 330              | 5.4         |
| 1       | 8/24/2009 | 15:45:00 | 20.1           | 329              | 5.38        |
| 1       | 8/24/2009 | 16:00:00 | 20.18          | 327              | 5.42        |
| 1       | 8/24/2009 | 16:15:00 | 20.46          | 328              | 5.99        |
| 1       | 8/24/2009 | 16:30:00 | 20.31          | 330              | 5.71        |
| 1       | 8/24/2009 | 16:45:00 | 20.42          | 329              | 5.7         |
| 1       | 8/24/2009 | 17:00:00 | 20.45          | 330              | 5.74        |
| 1       | 8/24/2009 | 17:15:00 | 20.27          | 329              | 5.66        |
| 1       | 8/24/2009 | 17:30:00 | 20.5           | 328              | 5.67        |
| 1       | 8/24/2009 | 17:45:00 | 20.62          | 329              | 5.89        |
| 1       | 8/24/2009 | 18:00:00 | 20.58          | 330              | 5.46        |
| 1       | 8/24/2009 | 18:15:00 | 20.56          | 330              | 5.25        |
| 1       | 8/24/2009 | 18:30:00 | 20.49          | 329              | 5.1         |
| 1       | 8/24/2009 | 18:45:00 | 20.63          | 329              | 5.39        |
| 1       | 8/24/2009 | 19:00:00 | 20.64          | 330              | 5.48        |
| 1       | 8/24/2009 | 19:15:00 | 20.6           | 330              | 5.21        |
| 1       | 8/24/2009 | 19:30:00 | 20.63          | 329              | 5.15        |
| 1       | 8/24/2009 | 19:45:00 | 20.6           | 330              | 5.11        |
| 1       | 8/24/2009 | 20:00:00 | 20.63          | 329              | 5.02        |
| 1       | 8/24/2009 | 20:15:00 | 20.69          | 329              | 5.16        |
| 1       | 8/24/2009 | 20:30:00 | 20.66          | 331              | 5.39        |
| 1       | 8/24/2009 | 20:45:00 | 20.72          | 330              | 5.24        |
| 1       | 8/24/2009 | 21:00:00 | 20.8           | 330              | 5.14        |
| 1       | 8/24/2009 | 21:15:00 | 20.78          | 330              | 5.17        |
| 1       | 8/24/2009 | 21:30:00 | 20.63          | 330              | 5.13        |
| 1       | 8/24/2009 | 21:45:00 | 20.7           | 330              | 5.05        |
| 1       | 8/24/2009 | 22:00:00 | 20.74          | 330              | 5.02        |
| 1       | 8/24/2009 | 22:15:00 | 20.9           | 331              | 4.92        |
| 1       | 8/24/2009 | 22:30:00 | 20.76          | 331              | 5.01        |
| 1       | 8/24/2009 | 22:45:00 | 20.79          | 330              | 5.08        |
| 1       | 8/24/2009 | 23:00:00 | 20.61          | 331              | 5.24        |
| 1       | 8/24/2009 | 23:15:00 | 20.83          | 332              | 5.26        |
| 1       | 8/24/2009 | 23:30:00 | 21.07          | 331              | 5.27        |
| 1       | 8/24/2009 | 23:45:00 | 20.8           | 331              | 5.31        |
| 1       | 8/25/2009 | 0:00:00  | 20.84          | 332              | 5.16        |
| 1       | 8/25/2009 | 0:15:00  | 21.23          | 331              | 4.94        |
| 1       | 8/25/2009 | 0:30:00  | 21.45          | 334              | 5.83        |
| 1       | 8/25/2009 | 0:45:00  | 22.39          | 338              | 5.12        |
| 1       | 8/25/2009 | 1:00:00  | 20.99          | 332              | 5.05        |
| 1       | 8/25/2009 | 1:15:00  | 22.47          | 337              | 5.75        |

| Station | Date      | Time     | Temperature °C | Sp.Cond<br>µs/cm | oDO<br>mg/L |
|---------|-----------|----------|----------------|------------------|-------------|
| 1       | 8/25/2009 | 1:30:00  | 21.48          | 334              | 5.48        |
| 1       | 8/25/2009 | 1:45:00  | 22.02          | 337              | 5.25        |
| 1       | 8/25/2009 | 2:00:00  | 21.52          | 337              | 5.75        |
| 1       | 8/25/2009 | 2:15:00  | 21.81          | 336              | 5.67        |
| 1       | 8/25/2009 | 2:30:00  | 21.92          | 338              | 5.71        |
| 1       | 8/25/2009 | 2:45:00  | 21.86          | 337              | 5.73        |
| 1       | 8/25/2009 | 3:00:00  | 21.53          | 335              | 5.56        |
| 1       | 8/25/2009 | 3:15:00  | 21.76          | 338              | 5.45        |
| 1       | 8/25/2009 | 3:30:00  | 21.71          | 338              | 5.23        |
| 1       | 8/25/2009 | 3:45:00  | 21.7           | 338              | 4.97        |
| 1       | 8/25/2009 | 4:00:00  | 21.6           | 339              | 5.1         |
| 1       | 8/25/2009 | 4:15:00  | 21.49          | 339              | 5.45        |
| 1       | 8/25/2009 | 4:30:00  | 21.47          | 339              | 5.35        |
| 1       | 8/25/2009 | 4:45:00  | 21.41          | 339              | 5.42        |
| 1       | 8/25/2009 | 5:00:00  | 21.34          | 339              | 5.33        |
| 1       | 8/25/2009 | 5:15:00  | 21.27          | 340              | 5.47        |
| 1       | 8/25/2009 | 5:30:00  | 21.21          | 341              | 5.48        |
| 1       | 8/25/2009 | 5:45:00  | 21.19          | 341              | 5.37        |
| 1       | 8/25/2009 | 6:00:00  | 21.17          | 341              | 5.42        |
| 1       | 8/25/2009 | 6:15:00  | 21.09          | 342              | 5.49        |
| 1       | 8/25/2009 | 6:30:00  | 21.04          | 342              | 5.44        |
| 1       | 8/25/2009 | 6:45:00  | 21             | 341              | 5.41        |
| 1       | 8/25/2009 | 7:00:00  | 20.93          | 343              | 5.46        |
| 1       | 8/25/2009 | 7:15:00  | 20.92          | 343              | 5.34        |
| 1       | 8/25/2009 | 7:30:00  | 20.87          | 342              | 5.44        |
| 1       | 8/25/2009 | 7:45:00  | 20.83          | 341              | 5.43        |
| 1       | 8/25/2009 | 8:00:00  | 20.8           | 342              | 5.46        |
| 1       | 8/25/2009 | 8:15:00  | 20.78          | 341              | 5.48        |
| 1       | 8/25/2009 | 8:30:00  | 20.77          | 341              | 5.48        |
| 1       | 8/25/2009 | 8:45:00  | 20.77          | 341              | 5.48        |
| 1       | 8/25/2009 | 9:00:00  | 20.77          | 342              | 5.53        |
| 1       | 8/25/2009 | 9:15:00  | 20.8           | 344              | 5.49        |
| 1       | 8/25/2009 | 9:30:00  | 20.82          | 345              | 5.45        |
| 1       | 8/25/2009 | 9:45:00  | 20.79          | 344              | 5.27        |
| 1       | 8/25/2009 | 10:00:00 | 20.82          | 345              | 5.32        |
| 1       | 8/25/2009 | 10:15:00 | 20.87          | 346              | 5.2         |
| 1       | 8/25/2009 | 10:30:00 | 20.89          | 346              | 5.15        |
| 1       | 8/25/2009 | 10:45:00 | 20.94          | 345              | 5.13        |
| 1       | 8/25/2009 | 11:00:00 | 20.87          | 345              | 5.15        |
| 1       | 8/25/2009 | 11:15:00 | 20.91          | 345              | 5.09        |
| 1       | 8/25/2009 | 11:30:00 | 20.97          | 345              | 5.1         |
| 1       | 8/25/2009 | 11:45:00 | 21.04          | 344              | 5.11        |
| 1       | 8/25/2009 | 12:00:00 | 21.02          | 344              | 5.16        |
| 1       | 8/25/2009 | 12:15:00 | 21.05          | 344              | 5.08        |
| 1       | 8/25/2009 | 12:30:00 | 21.33          | 343              | 5.24        |
| 1       | 8/25/2009 | 12:45:00 | 21.22          | 344              | 5.32        |

| Station | Date      | Time     | Temperature °C | Sp.Cond<br>µs/cm | oDO<br>mg/L |
|---------|-----------|----------|----------------|------------------|-------------|
| 1       | 8/25/2009 | 13:00:00 | 21.34          | 343              | 5.32        |
| 1       | 8/25/2009 | 13:15:00 | 21.41          | 343              | 5.49        |
| 1       | 8/25/2009 | 13:30:00 | 21.28          | 344              | 5.32        |
| 1       | 8/25/2009 | 13:45:00 | 21.36          | 344              | 5.22        |
| 1       | 8/25/2009 | 14:00:00 | 21.28          | 344              | 4.99        |
| 1       | 8/25/2009 | 14:15:00 | 21.29          | 344              | 5.03        |
| 1       | 8/25/2009 | 14:30:00 | 21.51          | 343              | 5.12        |
| 1       | 8/25/2009 | 14:45:00 | 21.7           | 343              | 5.47        |
| 1       | 8/25/2009 | 15:00:00 | 21.46          | 344              | 5.26        |
| 1       | 8/25/2009 | 15:15:00 | 21.43          | 344              | 5.19        |
| 1       | 8/25/2009 | 15:30:00 | 21.35          | 344              | 5.11        |
| 1       | 8/25/2009 | 15:45:00 | 21.82          | 343              | 5.41        |
| 1       | 8/25/2009 | 16:00:00 | 21.76          | 344              | 5.43        |
| 1       | 8/25/2009 | 16:15:00 | 21.65          | 344              | 5.32        |
| 1       | 8/25/2009 | 16:30:00 | 21.76          | 344              | 5.36        |
| 1       | 8/25/2009 | 16:45:00 | 21.88          | 344              | 5.32        |
| 1       | 8/25/2009 | 17:00:00 | 21.95          | 344              | 5.33        |
| 1       | 8/25/2009 | 17:15:00 | 21.64          | 345              | 5.14        |
| 1       | 8/25/2009 | 17:30:00 | 21.92          | 344              | 5.04        |
| 1       | 8/25/2009 | 17:45:00 | 21.84          | 345              | 4.93        |
| 1       | 8/25/2009 | 18:00:00 | 21.77          | 344              | 5.01        |
| 1       | 8/25/2009 | 18:15:00 | 21.86          | 344              | 5.03        |
| 1       | 8/25/2009 | 18:30:00 | 21.91          | 344              | 5.06        |
| 1       | 8/25/2009 | 18:45:00 | 21.84          | 343              | 5.05        |
| 1       | 8/25/2009 | 19:00:00 | 21.87          | 344              | 5.02        |
| 1       | 8/25/2009 | 19:15:00 | 21.88          | 344              | 4.97        |
| 1       | 8/25/2009 | 19:30:00 | 21.89          | 344              | 4.94        |
| 1       | 8/25/2009 | 19:45:00 | 21.92          | 344              | 4.92        |
| 1       | 8/25/2009 | 20:00:00 | 21.99          | 344              | 4.85        |
| 1       | 8/25/2009 | 20:15:00 | 21.93          | 344              | 4.88        |
| 1       | 8/25/2009 | 20:30:00 | 21.9           | 344              | 4.77        |
| 1       | 8/25/2009 | 20:45:00 | 21.86          | 345              | 4.81        |
| 1       | 8/25/2009 | 21:00:00 | 22.13          | 343              | 4.86        |
| 1       | 8/25/2009 | 21:15:00 | 21.94          | 344              | 4.96        |
| 1       | 8/25/2009 | 21:30:00 | 21.93          | 345              | 4.86        |
| 1       | 8/25/2009 | 21:45:00 | 21.96          | 342              | 4.7         |
| 1       | 8/25/2009 | 22:00:00 | 22.04          | 344              | 4.59        |
| 1       | 8/25/2009 | 22:15:00 | 21.9           | 344              | 4.78        |
| 1       | 8/25/2009 | 22:30:00 | 21.96          | 345              | 4.84        |
| 1       | 8/25/2009 | 22:45:00 | 22.49          | 342              | 4.96        |
| 1       | 8/25/2009 | 23:00:00 | 22.08          | 344              | 5.11        |
| 1       | 8/25/2009 | 23:15:00 | 22.23          | 344              | 5.14        |
| 1       | 8/25/2009 | 23:30:00 | 22.01          | 338              | 4.82        |
| 1       | 8/25/2009 | 23:45:00 | 22.46          | 345              | 4.71        |
| 1       | 8/26/2009 | 0:00:00  | 22.22          | 345              | 4.76        |
| 1       | 8/26/2009 | 0:15:00  | 22.16          | 344              | 4.75        |

| Station | Date      | Time     | Temperature °C | Sp.Cond<br>µs/cm | oDO<br>mg/L |
|---------|-----------|----------|----------------|------------------|-------------|
| 1       | 8/26/2009 | 0:30:00  | 22.11          | 346              | 4.84        |
| 1       | 8/26/2009 | 0:45:00  | 22.43          | 345              | 4.98        |
| 1       | 8/26/2009 | 1:00:00  | 22.99          | 342              | 4.74        |
| 1       | 8/26/2009 | 1:15:00  | 22.47          | 347              | 4.74        |
| 1       | 8/26/2009 | 1:30:00  | 22.76          | 347              | 4.48        |
| 1       | 8/26/2009 | 1:45:00  | 22.55          | 347              | 4.74        |
| 1       | 8/26/2009 | 2:00:00  | 22.72          | 343              | 4.92        |
| 1       | 8/26/2009 | 2:15:00  | 22.58          | 347              | 4.7         |
| 1       | 8/26/2009 | 2:30:00  | 22.63          | 347              | 4.68        |
| 1       | 8/26/2009 | 2:45:00  | 22.58          | 349              | 4.63        |
| 1       | 8/26/2009 | 3:00:00  | 22.76          | 348              | 4.57        |
| 1       | 8/26/2009 | 3:15:00  | 22.77          | 350              | 4.86        |
| 1       | 8/26/2009 | 3:30:00  | 22.49          | 347              | 4.88        |
| 1       | 8/26/2009 | 3:45:00  | 22.74          | 349              | 4.51        |
| 1       | 8/26/2009 | 4:00:00  | 22.83          | 351              | 4.57        |
| 1       | 8/26/2009 | 4:15:00  | 22.76          | 349              | 4.4         |
| 1       | 8/26/2009 | 4:30:00  | 22.75          | 349              | 4.34        |
| 1       | 8/26/2009 | 4:45:00  | 22.72          | 351              | 4.64        |
| 1       | 8/26/2009 | 5:00:00  | 22.69          | 351              | 4.43        |
| 1       | 8/26/2009 | 5:15:00  | 22.72          | 351              | 4.32        |
| 1       | 8/26/2009 | 5:30:00  | 23             | 354              | 4.2         |
| 1       | 8/26/2009 | 5:45:00  | 22.79          | 352              | 4.22        |
| 1       | 8/26/2009 | 6:00:00  | 22.73          | 351              | 4.42        |
| 1       | 8/26/2009 | 6:15:00  | 22.95          | 356              | 4.7         |
| 1       | 8/26/2009 | 6:30:00  | 22.79          | 357              | 4.96        |
| 1       | 8/26/2009 | 6:45:00  | 22.95          | 359              | 4.97        |
| 1       | 8/26/2009 | 7:00:00  | 22.93          | 359              | 5.04        |
| 1       | 8/26/2009 | 7:15:00  | 22.9           | 359              | 4.99        |
| 1       | 8/26/2009 | 7:30:00  | 22.81          | 360              | 4.92        |
| 1       | 8/26/2009 | 7:45:00  | 22.82          | 360              | 4.94        |
| 1       | 8/26/2009 | 8:00:00  | 22.78          | 360              | 4.97        |
| 1       | 8/26/2009 | 8:15:00  | 22.75          | 361              | 4.91        |
| 1       | 8/26/2009 | 8:30:00  | 22.7           | 362              | 4.9         |
| 1       | 8/26/2009 | 8:45:00  | 22.67          | 363              | 5.04        |
| 1       | 8/26/2009 | 9:00:00  | 22.65          | 363              | 5.04        |
| 1       | 8/26/2009 | 9:15:00  | 22.67          | 363              | 5           |
| 1       | 8/26/2009 | 9:30:00  | 22.57          | 361              | 4.63        |
| 1       | 8/26/2009 | 9:45:00  | 22.54          | 361              | 4.49        |
| 1       | 8/26/2009 | 10:00:00 | 22.66          | 362              | 4.51        |
| 1       | 8/26/2009 | 10:15:00 | 22.69          | 362              | 4.65        |

| Station | Date      | Time     | Temperature °C | Sp.Cond<br>µs/cm | oDO<br>mg/L |
|---------|-----------|----------|----------------|------------------|-------------|
| 2       | 8/15/2009 | 14:30:00 | 23.59          | 553              | 7.24        |
| 2       | 8/15/2009 | 14:45:00 | 23.48          | 553              | 7.32        |
| 2       | 8/15/2009 | 15:00:00 | 23.66          | 556              | 7.42        |
| 2       | 8/15/2009 | 15:15:00 | 23.86          | 553              | 7.8         |
| 2       | 8/15/2009 | 15:30:00 | 23.84          | 552              | 8.27        |
| 2       | 8/15/2009 | 15:45:00 | 23.89          | 553              | 8.08        |
| 2       | 8/15/2009 | 16:00:00 | 23.87          | 552              | 7.94        |
| 2       | 8/15/2009 | 16:15:00 | 23.9           | 554              | 8.04        |
| 2       | 8/15/2009 | 16:30:00 | 23.9           | 553              | 7.8         |
| 2       | 8/15/2009 | 16:45:00 | 23.94          | 553              | 7.76        |
| 2       | 8/15/2009 | 17:00:00 | 24.12          | 554              | 7.62        |
| 2       | 8/15/2009 | 17:15:00 | 23.96          | 552              | 7.97        |
| 2       | 8/15/2009 | 17:30:00 | 23.92          | 553              | 7.92        |
| 2       | 8/15/2009 | 17:45:00 | 24             | 553              | 7.95        |
| 2       | 8/15/2009 | 18:00:00 | 24.07          | 554              | 7.58        |
| 2       | 8/15/2009 | 18:15:00 | 24.23          | 557              | 7.55        |
| 2       | 8/15/2009 | 18:30:00 | 24.12          | 558              | 7.37        |
| 2       | 8/15/2009 | 18:45:00 | 24.2           | 556              | 7.21        |
| 2       | 8/15/2009 | 19:00:00 | 24.47          | 561              | 7.21        |
| 2       | 8/15/2009 | 19:15:00 | 25.05          | 554              | 7.16        |
| 2       | 8/15/2009 | 19:30:00 | 25.02          | 556              | 7.24        |
| 2       | 8/15/2009 | 19:45:00 | 24.99          | 564              | 7.17        |
| 2       | 8/15/2009 | 20:00:00 | 24.93          | 564              | 7.11        |
| 2       | 8/15/2009 | 20:15:00 | 24.87          | 564              | 7.12        |
| 2       | 8/15/2009 | 20:30:00 | 24.81          | 564              | 7.12        |
| 2       | 8/15/2009 | 20:45:00 | 24.77          | 564              | 7.11        |
| 2       | 8/15/2009 | 21:00:00 | 24.71          | 562              | 7.14        |
| 2       | 8/15/2009 | 21:15:00 | 24.68          | 562              | 7.14        |
| 2       | 8/15/2009 | 21:30:00 | 24.66          | 562              | 7.13        |
| 2       | 8/15/2009 | 21:45:00 | 24.64          | 561              | 7.13        |
| 2       | 8/15/2009 | 22:00:00 | 24.63          | 562              | 7.14        |
| 2       | 8/15/2009 | 22:15:00 | 24.61          | 563              | 7.11        |
| 2       | 8/15/2009 | 22:30:00 | 24.59          | 563              | 7.13        |
| 2       | 8/15/2009 | 22:45:00 | 24.58          | 563              | 7.13        |
| 2       | 8/15/2009 | 23:00:00 | 24.55          | 563              | 7.09        |
| 2       | 8/15/2009 | 23:15:00 | 24.53          | 563              | 7.1         |
| 2       | 8/15/2009 | 23:30:00 | 24.5           | 563              | 7.08        |
| 2       | 8/15/2009 | 23:45:00 | 24.48          | 563              | 7.04        |
| 2       | 8/16/2009 | 0:00:00  | 24.45          | 563              | 7.08        |
| 2       | 8/16/2009 | 0:15:00  | 24.43          | 564              | 7.06        |
| 2       | 8/16/2009 | 0:30:00  | 24.41          | 564              | 7.03        |
| 2       | 8/16/2009 | 0:45:00  | 24.38          | 564              | 7.02        |
| 2       | 8/16/2009 | 1:00:00  | 24.35          | 564              | 6.98        |
| 2       | 8/16/2009 | 1:15:00  | 24.31          | 564              | 6.96        |
| 2       | 8/16/2009 | 1:30:00  | 24.29          | 564              | 6.91        |
| 2       | 8/16/2009 | 1:45:00  | 24.24          | 564              | 6.9         |

| Station | Date      | Time     | Temperature °C | Sp.Cond<br>µs/cm | oDO<br>mg/L |
|---------|-----------|----------|----------------|------------------|-------------|
| 2       | 8/16/2009 | 2:00:00  | 24.2           | 564              | 6.86        |
| 2       | 8/16/2009 | 2:15:00  | 24.16          | 565              | 6.83        |
| 2       | 8/16/2009 | 2:30:00  | 24.13          | 565              | 6.8         |
| 2       | 8/16/2009 | 2:45:00  | 24.09          | 566              | 6.75        |
| 2       | 8/16/2009 | 3:00:00  | 24.05          | 565              | 6.71        |
| 2       | 8/16/2009 | 3:15:00  | 24.02          | 566              | 6.67        |
| 2       | 8/16/2009 | 3:30:00  | 23.98          | 566              | 6.64        |
| 2       | 8/16/2009 | 3:45:00  | 23.95          | 566              | 6.6         |
| 2       | 8/16/2009 | 4:00:00  | 23.91          | 566              | 6.59        |
| 2       | 8/16/2009 | 4:15:00  | 23.88          | 566              | 6.54        |
| 2       | 8/16/2009 | 4:30:00  | 23.85          | 567              | 6.51        |
| 2       | 8/16/2009 | 4:45:00  | 23.81          | 567              | 6.48        |
| 2       | 8/16/2009 | 5:00:00  | 23.77          | 567              | 6.42        |
| 2       | 8/16/2009 | 5:15:00  | 23.73          | 568              | 6.39        |
| 2       | 8/16/2009 | 5:30:00  | 23.7           | 568              | 6.36        |
| 2       | 8/16/2009 | 5:45:00  | 23.66          | 569              | 6.34        |
| 2       | 8/16/2009 | 6:00:00  | 23.63          | 569              | 6.31        |
| 2       | 8/16/2009 | 6:15:00  | 23.61          | 570              | 6.26        |
| 2       | 8/16/2009 | 6:30:00  | 23.59          | 571              | 6.24        |
| 2       | 8/16/2009 | 6:45:00  | 23.56          | 571              | 6.21        |
| 2       | 8/16/2009 | 7:00:00  | 23.54          | 572              | 6.17        |
| 2       | 8/16/2009 | 7:15:00  | 23.51          | 572              | 6.23        |
| 2       | 8/16/2009 | 7:30:00  | 23.41          | 560              | 6.51        |
| 2       | 8/16/2009 | 7:45:00  | 23.4           | 562              | 6.45        |
| 2       | 8/16/2009 | 8:00:00  | 23.34          | 554              | 6.59        |
| 2       | 8/16/2009 | 8:15:00  | 23.28          | 547              | 6.61        |
| 2       | 8/16/2009 | 8:30:00  | 23.26          | 552              | 6.53        |
| 2       | 8/16/2009 | 8:45:00  | 23.24          | 555              | 6.5         |
| 2       | 8/16/2009 | 9:00:00  | 23.22          | 556              | 6.45        |
| 2       | 8/16/2009 | 9:15:00  | 23.19          | 553              | 6.54        |
| 2       | 8/16/2009 | 9:30:00  | 23.16          | 550              | 6.58        |
| 2       | 8/16/2009 | 9:45:00  | 23.11          | 546              | 6.69        |
| 2       | 8/16/2009 | 10:00:00 | 23.07          | 542              | 6.76        |
| 2       | 8/16/2009 | 10:15:00 | 23.03          | 534              | 6.89        |
| 2       | 8/16/2009 | 10:30:00 | 22.97          | 529              | 6.93        |
| 2       | 8/16/2009 | 10:45:00 | 22.93          | 521              | 7.01        |
| 2       | 8/16/2009 | 11:00:00 | 22.86          | 506              | 7.17        |
| 2       | 8/16/2009 | 11:15:00 | 22.77          | 486              | 7.24        |
| 2       | 8/16/2009 | 11:30:00 | 22.76          | 495              | 7.2         |
| 2       | 8/16/2009 | 11:45:00 | 22.76          | 512              | 7.17        |
| 2       | 8/16/2009 | 12:00:00 | 22.75          | 507              | 7.23        |
| 2       | 8/16/2009 | 12:15:00 | 22.76          | 499              | 7.31        |
| 2       | 8/16/2009 | 12:30:00 | 22.61          | 416              | 7.55        |
| 2       | 8/16/2009 | 12:45:00 | 22.48          | 322              | 7.73        |
| 2       | 8/16/2009 | 13:00:00 | 22.44          | 263              | 7.79        |
| 2       | 8/16/2009 | 13:15:00 | 22.45          | 255              | 7.77        |

| Station | Date      | Time     | Temperature °C | Sp.Cond<br>µs/cm | oDO<br>mg/L |
|---------|-----------|----------|----------------|------------------|-------------|
| 2       | 8/16/2009 | 13:30:00 | 22.5           | 288              | 7.66        |
| 2       | 8/16/2009 | 13:45:00 | 22.59          | 351              | 7.46        |
| 2       | 8/16/2009 | 14:00:00 | 22.64          | 352              | 7.34        |
| 2       | 8/16/2009 | 14:15:00 | 22.72          | 338              | 7.23        |
| 2       | 8/16/2009 | 14:30:00 | 22.97          | 402              | 7.45        |
| 2       | 8/16/2009 | 14:45:00 | 23.25          | 464              | 7.4         |
| 2       | 8/16/2009 | 15:00:00 | 23.41          | 473              | 7.41        |
| 2       | 8/16/2009 | 15:15:00 | 23.42          | 432              | 7.44        |
| 2       | 8/16/2009 | 15:30:00 | 23.24          | 362              | 7.36        |
| 2       | 8/16/2009 | 15:45:00 | 23.04          | 308              | 7.32        |
| 2       | 8/16/2009 | 16:00:00 | 22.97          | 286              | 7.37        |
| 2       | 8/16/2009 | 16:15:00 | 22.97          | 276              | 7.44        |
| 2       | 8/16/2009 | 16:30:00 | 22.99          | 274              | 7.5         |
| 2       | 8/16/2009 | 16:45:00 | 23.04          | 279              | 7.55        |
| 2       | 8/16/2009 | 17:00:00 | 23.07          | 286              | 7.56        |
| 2       | 8/16/2009 | 17:15:00 | 23.1           | 295              | 7.57        |
| 2       | 8/16/2009 | 17:30:00 | 23.13          | 302              | 7.56        |
| 2       | 8/16/2009 | 17:45:00 | 23.15          | 309              | 7.57        |
| 2       | 8/16/2009 | 18:00:00 | 23.16          | 316              | 7.56        |
| 2       | 8/16/2009 | 18:15:00 | 23.18          | 321              | 7.55        |
| 2       | 8/16/2009 | 18:30:00 | 23.2           | 327              | 7.56        |
| 2       | 8/16/2009 | 18:45:00 | 23.23          | 331              | 7.54        |
| 2       | 8/16/2009 | 19:00:00 | 23.25          | 334              | 7.52        |
| 2       | 8/16/2009 | 19:15:00 | 23.27          | 336              | 7.5         |
| 2       | 8/16/2009 | 19:30:00 | 23.28          | 336              | 7.49        |
| 2       | 8/16/2009 | 19:45:00 | 23.29          | 335              | 7.44        |
| 2       | 8/16/2009 | 20:00:00 | 23.29          | 334              | 7.41        |
| 2       | 8/16/2009 | 20:15:00 | 23.3           | 332              | 7.36        |
| 2       | 8/16/2009 | 20:30:00 | 23.3           | 329              | 7.34        |
| 2       | 8/16/2009 | 20:45:00 | 23.3           | 326              | 7.3         |
| 2       | 8/16/2009 | 21:00:00 | 23.3           | 322              | 7.25        |
| 2       | 8/16/2009 | 21:15:00 | 23.3           | 318              | 7.23        |
| 2       | 8/16/2009 | 21:30:00 | 23.3           | 315              | 7.21        |
| 2       | 8/16/2009 | 21:45:00 | 23.3           | 311              | 7.19        |
| 2       | 8/16/2009 | 22:00:00 | 23.3           | 308              | 7.17        |
| 2       | 8/16/2009 | 22:15:00 | 23.3           | 306              | 7.15        |
| 2       | 8/16/2009 | 22:30:00 | 23.29          | 303              | 7.13        |
| 2       | 8/16/2009 | 22:45:00 | 23.29          | 302              | 7.12        |
| 2       | 8/16/2009 | 23:00:00 | 23.28          | 300              | 7.1         |
| 2       | 8/16/2009 | 23:15:00 | 23.28          | 299              | 7.07        |
| 2       | 8/16/2009 | 23:30:00 | 23.27          | 299              | 7.05        |
| 2       | 8/16/2009 | 23:45:00 | 23.26          | 298              | 7.04        |
| 2       | 8/17/2009 | 0:00:00  | 23.26          | 298              | 7.02        |
| 2       | 8/17/2009 | 0:15:00  | 23.25          | 298              | 7.02        |
| 2       | 8/17/2009 | 0:30:00  | 23.24          | 298              | 7           |
| 2       | 8/17/2009 | 0:45:00  | 23.24          | 298              | 7.01        |

| Station | Date      | Time     | Temperature °C | Sp.Cond<br>µs/cm | oDO<br>mg/L |
|---------|-----------|----------|----------------|------------------|-------------|
| 2       | 8/17/2009 | 1:00:00  | 23.23          | 299              | 7           |
| 2       | 8/17/2009 | 1:15:00  | 23.23          | 300              | 6.99        |
| 2       | 8/17/2009 | 1:30:00  | 23.23          | 300              | 6.97        |
| 2       | 8/17/2009 | 1:45:00  | 23.23          | 301              | 6.96        |
| 2       | 8/17/2009 | 2:00:00  | 23.22          | 302              | 6.96        |
| 2       | 8/17/2009 | 2:15:00  | 23.22          | 303              | 6.96        |
| 2       | 8/17/2009 | 2:30:00  | 23.21          | 304              | 6.96        |
| 2       | 8/17/2009 | 2:45:00  | 23.21          | 305              | 6.93        |
| 2       | 8/17/2009 | 3:00:00  | 23.21          | 306              | 6.93        |
| 2       | 8/17/2009 | 3:15:00  | 23.21          | 307              | 6.92        |
| 2       | 8/17/2009 | 3:30:00  | 23.2           | 308              | 6.91        |
| 2       | 8/17/2009 | 3:45:00  | 23.19          | 309              | 6.9         |
| 2       | 8/17/2009 | 4:00:00  | 23.18          | 310              | 6.89        |
| 2       | 8/17/2009 | 4:15:00  | 23.17          | 310              | 6.89        |
| 2       | 8/17/2009 | 4:30:00  | 23.17          | 311              | 6.88        |
| 2       | 8/17/2009 | 4:45:00  | 23.17          | 312              | 6.87        |
| 2       | 8/17/2009 | 5:00:00  | 23.16          | 312              | 6.9         |
| 2       | 8/17/2009 | 5:15:00  | 23.15          | 312              | 6.87        |
| 2       | 8/17/2009 | 5:30:00  | 23.14          | 312              | 6.9         |
| 2       | 8/17/2009 | 5:45:00  | 23.13          | 313              | 6.87        |
| 2       | 8/17/2009 | 6:00:00  | 23.12          | 313              | 6.85        |
| 2       | 8/17/2009 | 6:15:00  | 23.1           | 314              | 6.84        |
| 2       | 8/17/2009 | 6:30:00  | 23.08          | 315              | 6.84        |
| 2       | 8/17/2009 | 6:45:00  | 23.05          | 315              | 6.83        |
| 2       | 8/17/2009 | 7:00:00  | 23.02          | 316              | 6.84        |
| 2       | 8/17/2009 | 7:15:00  | 23             | 316              | 6.83        |
| 2       | 8/17/2009 | 7:30:00  | 22.99          | 317              | 6.82        |
| 2       | 8/17/2009 | 7:45:00  | 22.97          | 317              | 6.81        |
| 2       | 8/17/2009 | 8:00:00  | 22.96          | 318              | 6.8         |
| 2       | 8/17/2009 | 8:15:00  | 22.94          | 319              | 6.78        |
| 2       | 8/17/2009 | 8:30:00  | 22.93          | 319              | 6.79        |
| 2       | 8/17/2009 | 8:45:00  | 22.91          | 320              | 6.8         |
| 2       | 8/17/2009 | 9:00:00  | 22.91          | 320              | 6.81        |
| 2       | 8/17/2009 | 9:15:00  | 22.9           | 321              | 6.79        |
| 2       | 8/17/2009 | 9:30:00  | 22.89          | 321              | 6.79        |
| 2       | 8/17/2009 | 9:45:00  | 22.87          | 322              | 6.85        |
| 2       | 8/17/2009 | 10:00:00 | 22.86          | 322              | 6.83        |
| 2       | 8/17/2009 | 10:15:00 | 22.84          | 323              | 6.84        |
| 2       | 8/17/2009 | 10:30:00 | 22.83          | 324              | 6.85        |
| 2       | 8/17/2009 | 10:45:00 | 22.84          | 326              | 6.88        |
| 2       | 8/17/2009 | 11:00:00 | 22.85          | 327              | 6.9         |
| 2       | 8/17/2009 | 11:15:00 | 22.83          | 329              | 6.9         |
| 2       | 8/17/2009 | 11:30:00 | 22.8           | 329              | 6.95        |
| 2       | 8/17/2009 | 11:45:00 | 22.52          | 294              | 7.52        |
| 2       | 8/17/2009 | 12:00:00 | 22.42          | 276              | 7.69        |
| 2       | 8/17/2009 | 12:15:00 | 22.32          | 268              | 7.75        |

| Station | Date      | Time     | Temperature °C | Sp.Cond<br>µs/cm | oDO<br>mg/L |
|---------|-----------|----------|----------------|------------------|-------------|
| 2       | 8/17/2009 | 12:30:00 | 22.04          | 183              | 8.13        |
| 2       | 8/17/2009 | 12:45:00 | 22.04          | 172              | 8.13        |
| 2       | 8/17/2009 | 13:00:00 | 22.19          | 191              | 7.88        |
| 2       | 8/17/2009 | 13:15:00 | 22.31          | 206              | 7.88        |
| 2       | 8/17/2009 | 13:30:00 | 22.25          | 219              | 7.75        |
| 2       | 8/17/2009 | 13:45:00 | 22.12          | 214              | 7.76        |
| 2       | 8/17/2009 | 14:00:00 | 22.01          | 179              | 7.74        |
| 2       | 8/17/2009 | 14:15:00 | 21.98          | 175              | 7.69        |
| 2       | 8/17/2009 | 14:30:00 | 21.98          | 155              | 7.72        |
| 2       | 8/17/2009 | 14:45:00 | 21.99          | 146              | 7.81        |
| 2       | 8/17/2009 | 15:00:00 | 22.08          | 169              | 7.77        |
| 2       | 8/17/2009 | 15:15:00 | 22.13          | 171              | 7.74        |
| 2       | 8/17/2009 | 15:30:00 | 22.2           | 156              | 7.74        |
| 2       | 8/17/2009 | 15:45:00 | 22.27          | 147              | 7.79        |
| 2       | 8/17/2009 | 16:00:00 | 22.34          | 147              | 7.84        |
| 2       | 8/17/2009 | 16:15:00 | 22.42          | 151              | 7.86        |
| 2       | 8/17/2009 | 16:30:00 | 22.49          | 153              | 7.88        |
| 2       | 8/17/2009 | 16:45:00 | 22.56          | 154              | 7.88        |
| 2       | 8/17/2009 | 17:00:00 | 22.62          | 156              | 7.9         |
| 2       | 8/17/2009 | 17:15:00 | 22.69          | 157              | 7.9         |
| 2       | 8/17/2009 | 17:30:00 | 22.74          | 160              | 7.9         |
| 2       | 8/17/2009 | 17:45:00 | 22.79          | 163              | 7.87        |
| 2       | 8/17/2009 | 18:00:00 | 22.83          | 166              | 7.9         |
| 2       | 8/17/2009 | 18:15:00 | 22.87          | 169              | 7.86        |
| 2       | 8/17/2009 | 18:30:00 | 22.91          | 171              | 7.87        |
| 2       | 8/17/2009 | 18:45:00 | 22.96          | 173              | 7.86        |
| 2       | 8/17/2009 | 19:00:00 | 23             | 176              | 7.85        |
| 2       | 8/17/2009 | 19:15:00 | 23.03          | 178              | 7.83        |
| 2       | 8/17/2009 | 19:30:00 | 23.06          | 180              | 7.82        |
| 2       | 8/17/2009 | 19:45:00 | 23.09          | 183              | 7.8         |
| 2       | 8/17/2009 | 20:00:00 | 23.12          | 185              | 7.79        |
| 2       | 8/17/2009 | 20:15:00 | 23.15          | 187              | 7.77        |
| 2       | 8/17/2009 | 20:30:00 | 23.17          | 189              | 7.76        |
| 2       | 8/17/2009 | 20:45:00 | 23.18          | 190              | 7.73        |
| 2       | 8/17/2009 | 21:00:00 | 23.18          | 193              | 7.72        |
| 2       | 8/17/2009 | 21:15:00 | 23.17          | 194              | 7.72        |
| 2       | 8/17/2009 | 21:30:00 | 23.17          | 196              | 7.73        |
| 2       | 8/17/2009 | 21:45:00 | 23.15          | 198              | 7.71        |
| 2       | 8/17/2009 | 22:00:00 | 23.13          | 199              | 7.7         |
| 2       | 8/17/2009 | 22:15:00 | 23.11          | 201              | 7.69        |
| 2       | 8/17/2009 | 22:30:00 | 23.09          | 202              | 7.71        |
| 2       | 8/17/2009 | 22:45:00 | 23.06          | 204              | 7.71        |
| 2       | 8/17/2009 | 23:00:00 | 23.03          | 205              | 7.7         |
| 2       | 8/17/2009 | 23:15:00 | 23.01          | 206              | 7.69        |
| 2       | 8/17/2009 | 23:30:00 | 22.98          | 207              | 7.7         |
| 2       | 8/17/2009 | 23:45:00 | 22.96          | 207              | 7.7         |

| Station | Date      | Time     | Temperature °C | Sp.Cond<br>µs/cm | oDO<br>mg/L |
|---------|-----------|----------|----------------|------------------|-------------|
| 2       | 8/18/2009 | 0:00:00  | 22.93          | 208              | 7.69        |
| 2       | 8/18/2009 | 0:15:00  | 22.91          | 210              | 7.7         |
| 2       | 8/18/2009 | 0:30:00  | 22.89          | 211              | 7.68        |
| 2       | 8/18/2009 | 0:45:00  | 22.87          | 213              | 7.7         |
| 2       | 8/18/2009 | 1:00:00  | 22.85          | 215              | 7.7         |
| 2       | 8/18/2009 | 1:15:00  | 22.82          | 216              | 7.72        |
| 2       | 8/18/2009 | 1:30:00  | 22.8           | 217              | 7.72        |
| 2       | 8/18/2009 | 1:45:00  | 22.78          | 218              | 7.74        |
| 2       | 8/18/2009 | 2:00:00  | 22.76          | 219              | 7.75        |
| 2       | 8/18/2009 | 2:15:00  | 22.74          | 220              | 7.74        |
| 2       | 8/18/2009 | 2:30:00  | 22.71          | 221              | 7.74        |
| 2       | 8/18/2009 | 2:45:00  | 22.69          | 222              | 7.74        |
| 2       | 8/18/2009 | 3:00:00  | 22.66          | 224              | 7.75        |
| 2       | 8/18/2009 | 3:15:00  | 22.63          | 225              | 7.75        |
| 2       | 8/18/2009 | 3:30:00  | 22.61          | 226              | 7.76        |
| 2       | 8/18/2009 | 3:45:00  | 22.58          | 227              | 7.74        |
| 2       | 8/18/2009 | 4:00:00  | 22.56          | 228              | 7.73        |
| 2       | 8/18/2009 | 4:15:00  | 22.53          | 229              | 7.71        |
| 2       | 8/18/2009 | 4:30:00  | 22.5           | 231              | 7.71        |
| 2       | 8/18/2009 | 4:45:00  | 22.48          | 232              | 7.71        |
| 2       | 8/18/2009 | 5:00:00  | 22.46          | 234              | 7.71        |
| 2       | 8/18/2009 | 5:15:00  | 22.44          | 235              | 7.71        |
| 2       | 8/18/2009 | 5:30:00  | 22.42          | 237              | 7.7         |
| 2       | 8/18/2009 | 5:45:00  | 22.4           | 238              | 7.7         |
| 2       | 8/18/2009 | 6:00:00  | 22.38          | 239              | 7.72        |
| 2       | 8/18/2009 | 6:15:00  | 22.36          | 240              | 7.7         |
| 2       | 8/18/2009 | 6:30:00  | 22.34          | 241              | 7.7         |
| 2       | 8/18/2009 | 6:45:00  | 22.32          | 242              | 7.7         |
| 2       | 8/18/2009 | 7:00:00  | 22.3           | 243              | 7.72        |
| 2       | 8/18/2009 | 7:15:00  | 22.29          | 244              | 7.69        |
| 2       | 8/18/2009 | 7:30:00  | 22.27          | 246              | 7.69        |
| 2       | 8/18/2009 | 7:45:00  | 22.25          | 247              | 7.71        |
| 2       | 8/18/2009 | 8:00:00  | 22.24          | 247              | 7.72        |
| 2       | 8/18/2009 | 8:15:00  | 22.23          | 249              | 7.71        |
| 2       | 8/18/2009 | 8:30:00  | 22.21          | 250              | 7.72        |
| 2       | 8/18/2009 | 8:45:00  | 22.2           | 251              | 7.74        |
| 2       | 8/18/2009 | 9:00:00  | 22.19          | 252              | 7.76        |
| 2       | 8/18/2009 | 9:15:00  | 22.19          | 253              | 7.76        |
| 2       | 8/18/2009 | 9:30:00  | 22.19          | 255              | 7.77        |
| 2       | 8/18/2009 | 9:45:00  | 22.19          | 256              | 7.79        |
| 2       | 8/18/2009 | 10:00:00 | 22.21          | 257              | 7.82        |
| 2       | 8/18/2009 | 10:15:00 | 22.24          | 258              | 7.85        |
| 2       | 8/18/2009 | 10:30:00 | 22.28          | 259              | 7.9         |
| 2       | 8/18/2009 | 10:45:00 | 22.31          | 260              | 7.91        |
| 2       | 8/18/2009 | 11:00:00 | 22.34          | 260              | 7.94        |
| 2       | 8/18/2009 | 11:15:00 | 22.38          | 261              | 7.95        |

| Station | Date      | Time     | Temperature °C | Sp.Cond<br>µs/cm | oDO<br>mg/L |
|---------|-----------|----------|----------------|------------------|-------------|
| 2       | 8/18/2009 | 11:30:00 | 22.4           | 262              | 7.97        |
| 2       | 8/18/2009 | 11:45:00 | 22.43          | 262              | 8           |
| 2       | 8/18/2009 | 12:00:00 | 22.45          | 263              | 8.01        |
| 2       | 8/18/2009 | 12:15:00 | 22.47          | 264              | 8.03        |
| 2       | 8/18/2009 | 12:30:00 | 22.49          | 265              | 8.04        |
| 2       | 8/18/2009 | 12:45:00 | 22.51          | 266              | 8.06        |
| 2       | 8/18/2009 | 13:00:00 | 22.54          | 267              | 8.09        |
| 2       | 8/18/2009 | 13:15:00 | 22.58          | 268              | 8.11        |
| 2       | 8/18/2009 | 13:30:00 | 22.64          | 269              | 8.15        |
| 2       | 8/18/2009 | 13:45:00 | 22.72          | 270              | 8.2         |
| 2       | 8/18/2009 | 14:00:00 | 22.8           | 271              | 8.26        |
| 2       | 8/18/2009 | 14:15:00 | 22.87          | 272              | 8.29        |
| 2       | 8/18/2009 | 14:30:00 | 22.93          | 273              | 8.33        |
| 2       | 8/18/2009 | 14:45:00 | 23.01          | 274              | 8.37        |
| 2       | 8/18/2009 | 15:00:00 | 23.07          | 275              | 8.4         |
| 2       | 8/18/2009 | 15:15:00 | 23.15          | 277              | 8.42        |
| 2       | 8/18/2009 | 15:30:00 | 23.2           | 278              | 8.44        |
| 2       | 8/18/2009 | 15:45:00 | 23.22          | 279              | 8.42        |
| 2       | 8/18/2009 | 16:00:00 | 23.25          | 281              | 8.41        |
| 2       | 8/18/2009 | 16:15:00 | 23.28          | 283              | 8.39        |
| 2       | 8/18/2009 | 16:30:00 | 23.31          | 284              | 8.4         |
| 2       | 8/18/2009 | 16:45:00 | 23.34          | 286              | 8.37        |
| 2       | 8/18/2009 | 17:00:00 | 23.36          | 287              | 8.36        |
| 2       | 8/18/2009 | 17:15:00 | 23.36          | 289              | 8.31        |
| 2       | 8/18/2009 | 17:30:00 | 23.35          | 289              | 8.26        |
| 2       | 8/18/2009 | 17:45:00 | 23.33          | 290              | 8.21        |
| 2       | 8/18/2009 | 18:00:00 | 23.32          | 290              | 8.15        |
| 2       | 8/18/2009 | 18:15:00 | 23.32          | 290              | 8.12        |
| 2       | 8/18/2009 | 18:30:00 | 23.32          | 290              | 8.1         |
| 2       | 8/18/2009 | 18:45:00 | 23.31          | 290              | 8.06        |
| 2       | 8/18/2009 | 19:00:00 | 23.3           | 291              | 8.01        |
| 2       | 8/18/2009 | 19:15:00 | 23.28          | 291              | 7.96        |
| 2       | 8/18/2009 | 19:30:00 | 23.27          | 291              | 7.92        |
| 2       | 8/18/2009 | 19:45:00 | 23.26          | 291              | 7.88        |
| 2       | 8/18/2009 | 20:00:00 | 23.25          | 291              | 7.82        |
| 2       | 8/18/2009 | 20:15:00 | 23.22          | 292              | 7.8         |
| 2       | 8/18/2009 | 20:30:00 | 23.21          | 293              | 7.75        |
| 2       | 8/18/2009 | 20:45:00 | 23.18          | 294              | 7.73        |
| 2       | 8/18/2009 | 21:00:00 | 23.16          | 296              | 7.69        |
| 2       | 8/18/2009 | 21:15:00 | 23.14          | 298              | 7.67        |
| 2       | 8/18/2009 | 21:30:00 | 23.11          | 300              | 7.64        |
| 2       | 8/18/2009 | 21:45:00 | 23.08          | 302              | 7.54        |
| 2       | 8/18/2009 | 22:00:00 | 23.05          | 304              | 7.57        |
| 2       | 8/18/2009 | 22:15:00 | 23.03          | 306              | 7.56        |
| 2       | 8/18/2009 | 22:30:00 | 23             | 308              | 7.54        |
| 2       | 8/18/2009 | 22:45:00 | 22.97          | 310              | 7.53        |

| Station | Date      | Time     | Temperature °C | Sp.Cond<br>µs/cm | oDO<br>mg/L |
|---------|-----------|----------|----------------|------------------|-------------|
| 2       | 8/18/2009 | 23:00:00 | 22.93          | 311              | 7.52        |
| 2       | 8/18/2009 | 23:15:00 | 22.89          | 312              | 7.51        |
| 2       | 8/18/2009 | 23:30:00 | 22.85          | 313              | 7.5         |
| 2       | 8/18/2009 | 23:45:00 | 22.81          | 314              | 7.51        |
| 2       | 8/19/2009 | 0:00:00  | 22.76          | 314              | 7.47        |
| 2       | 8/19/2009 | 0:15:00  | 22.71          | 315              | 7.47        |
| 2       | 8/19/2009 | 0:30:00  | 22.67          | 315              | 7.49        |
| 2       | 8/19/2009 | 0:45:00  | 22.61          | 315              | 7.48        |
| 2       | 8/19/2009 | 1:00:00  | 22.56          | 316              | 7.47        |
| 2       | 8/19/2009 | 1:15:00  | 22.51          | 316              | 7.48        |
| 2       | 8/19/2009 | 1:30:00  | 22.47          | 317              | 7.48        |
| 2       | 8/19/2009 | 1:45:00  | 22.42          | 317              | 7.46        |
| 2       | 8/19/2009 | 2:00:00  | 22.37          | 318              | 7.46        |
| 2       | 8/19/2009 | 2:15:00  | 22.33          | 319              | 7.45        |
| 2       | 8/19/2009 | 2:30:00  | 22.29          | 320              | 7.45        |
| 2       | 8/19/2009 | 2:45:00  | 22.25          | 321              | 7.45        |
| 2       | 8/19/2009 | 3:00:00  | 22.22          | 322              | 7.44        |
| 2       | 8/19/2009 | 3:15:00  | 22.18          | 323              | 7.43        |
| 2       | 8/19/2009 | 3:30:00  | 22.14          | 324              | 7.41        |
| 2       | 8/19/2009 | 3:45:00  | 22.11          | 325              | 7.41        |
| 2       | 8/19/2009 | 4:00:00  | 22.07          | 326              | 7.4         |
| 2       | 8/19/2009 | 4:15:00  | 22.04          | 326              | 7.41        |
| 2       | 8/19/2009 | 4:30:00  | 22.01          | 327              | 7.41        |
| 2       | 8/19/2009 | 4:45:00  | 21.98          | 328              | 7.39        |
| 2       | 8/19/2009 | 5:00:00  | 21.96          | 329              | 7.4         |
| 2       | 8/19/2009 | 5:15:00  | 21.93          | 330              | 7.39        |
| 2       | 8/19/2009 | 5:30:00  | 21.9           | 330              | 7.36        |
| 2       | 8/19/2009 | 5:45:00  | 21.88          | 331              | 7.36        |
| 2       | 8/19/2009 | 6:00:00  | 21.86          | 332              | 7.35        |
| 2       | 8/19/2009 | 6:15:00  | 21.83          | 333              | 7.35        |
| 2       | 8/19/2009 | 6:30:00  | 21.81          | 334              | 7.37        |
| 2       | 8/19/2009 | 6:45:00  | 21.79          | 335              | 7.35        |
| 2       | 8/19/2009 | 7:00:00  | 21.78          | 336              | 7.34        |
| 2       | 8/19/2009 | 7:15:00  | 21.76          | 336              | 7.34        |
| 2       | 8/19/2009 | 7:30:00  | 21.74          | 337              | 7.35        |
| 2       | 8/19/2009 | 7:45:00  | 21.72          | 337              | 7.38        |
| 2       | 8/19/2009 | 8:00:00  | 21.71          | 337              | 7.36        |
| 2       | 8/19/2009 | 8:15:00  | 21.7           | 337              | 7.4         |
| 2       | 8/19/2009 | 8:30:00  | 21.7           | 338              | 7.39        |
| 2       | 8/19/2009 | 8:45:00  | 21.69          | 339              | 7.41        |
| 2       | 8/19/2009 | 9:00:00  | 21.69          | 339              | 7.41        |
| 2       | 8/19/2009 | 9:15:00  | 21.68          | 339              | 7.45        |
| 2       | 8/19/2009 | 9:30:00  | 21.68          | 339              | 7.44        |
| 2       | 8/19/2009 | 9:45:00  | 21.68          | 340              | 7.45        |
| 2       | 8/19/2009 | 10:00:00 | 21.67          | 341              | 7.46        |
| 2       | 8/19/2009 | 10:15:00 | 21.68          | 342              | 7.46        |

| Station | Date      | Time     | Temperature °C | Sp.Cond<br>µs/cm | oDO<br>mg/L |
|---------|-----------|----------|----------------|------------------|-------------|
| 2       | 8/19/2009 | 10:30:00 | 21.68          | 343              | 7.48        |
| 2       | 8/19/2009 | 10:45:00 | 21.71          | 344              | 7.51        |
| 2       | 8/19/2009 | 11:00:00 | 21.76          | 345              | 7.57        |
| 2       | 8/19/2009 | 11:15:00 | 21.82          | 345              | 7.57        |
| 2       | 8/19/2009 | 11:30:00 | 21.9           | 347              | 7.61        |
| 2       | 8/19/2009 | 11:45:00 | 22             | 347              | 7.66        |
| 2       | 8/19/2009 | 12:00:00 | 22.1           | 348              | 7.75        |
| 2       | 8/19/2009 | 12:15:00 | 22.19          | 349              | 7.79        |
| 2       | 8/19/2009 | 12:30:00 | 22.29          | 349              | 7.86        |
| 2       | 8/19/2009 | 12:45:00 | 22.37          | 350              | 7.91        |
| 2       | 8/19/2009 | 13:00:00 | 22.46          | 350              | 7.96        |
| 2       | 8/19/2009 | 13:15:00 | 22.62          | 351              | 8.03        |
| 2       | 8/19/2009 | 13:30:00 | 22.72          | 351              | 8.06        |
| 2       | 8/19/2009 | 13:45:00 | 22.76          | 351              | 8.11        |
| 2       | 8/19/2009 | 14:00:00 | 22.82          | 352              | 8.14        |
| 2       | 8/19/2009 | 14:15:00 | 22.94          | 352              | 8.17        |
| 2       | 8/19/2009 | 14:30:00 | 23.05          | 351              | 8.21        |
| 2       | 8/19/2009 | 14:45:00 | 23.09          | 351              | 8.22        |
| 2       | 8/19/2009 | 15:00:00 | 23.14          | 351              | 8.22        |
| 2       | 8/19/2009 | 15:15:00 | 23.19          | 351              | 8.24        |
| 2       | 8/19/2009 | 15:30:00 | 23.22          | 351              | 8.25        |
| 2       | 8/19/2009 | 15:45:00 | 23.24          | 351              | 8.25        |
| 2       | 8/19/2009 | 16:00:00 | 23.22          | 351              | 8.25        |
| 2       | 8/19/2009 | 16:15:00 | 23.23          | 352              | 8.23        |
| 2       | 8/19/2009 | 16:30:00 | 23.23          | 352              | 8.24        |
| 2       | 8/19/2009 | 16:45:00 | 23.2           | 353              | 8.19        |
| 2       | 8/19/2009 | 17:00:00 | 23.16          | 353              | 8.16        |
| 2       | 8/19/2009 | 17:15:00 | 23.13          | 354              | 8.13        |
| 2       | 8/19/2009 | 17:30:00 | 23.13          | 355              | 8.1         |
| 2       | 8/19/2009 | 17:45:00 | 23.13          | 356              | 8.09        |
| 2       | 8/19/2009 | 18:00:00 | 23.1           | 357              | 8.05        |
| 2       | 8/19/2009 | 18:15:00 | 23.05          | 358              | 8           |
| 2       | 8/19/2009 | 18:30:00 | 23.01          | 360              | 7.96        |
| 2       | 8/19/2009 | 18:45:00 | 22.99          | 362              | 7.88        |
| 2       | 8/19/2009 | 19:00:00 | 22.96          | 363              | 7.83        |
| 2       | 8/19/2009 | 19:15:00 | 22.94          | 365              | 7.81        |
| 2       | 8/19/2009 | 19:30:00 | 22.93          | 368              | 7.76        |
| 2       | 8/19/2009 | 19:45:00 | 22.9           | 370              | 7.73        |
| 2       | 8/19/2009 | 20:00:00 | 22.86          | 371              | 7.73        |
| 2       | 8/19/2009 | 20:15:00 | 22.81          | 373              | 7.72        |
| 2       | 8/19/2009 | 20:30:00 | 22.73          | 370              | 7.76        |
| 2       | 8/19/2009 | 20:45:00 | 22.69          | 372              | 7.74        |
| 2       | 8/19/2009 | 21:00:00 | 22.65          | 376              | 7.66        |
| 2       | 8/19/2009 | 21:15:00 | 22.61          | 379              | 7.58        |
| 2       | 8/19/2009 | 21:30:00 | 22.55          | 382              | 7.65        |
| 2       | 8/19/2009 | 21:45:00 | 22.49          | 385              | 7.67        |

| Station | Date      | Time     | Temperature °C | Sp.Cond<br>µs/cm | oDO<br>mg/L |
|---------|-----------|----------|----------------|------------------|-------------|
| 2       | 8/19/2009 | 22:00:00 | 22.44          | 388              | 7.71        |
| 2       | 8/19/2009 | 22:15:00 | 22.37          | 389              | 7.71        |
| 2       | 8/19/2009 | 22:30:00 | 22.27          | 382              | 7.7         |
| 2       | 8/19/2009 | 22:45:00 | 22.17          | 371              | 7.7         |
| 2       | 8/19/2009 | 23:00:00 | 22.08          | 362              | 7.7         |
| 2       | 8/19/2009 | 23:15:00 | 22.01          | 357              | 7.68        |
| 2       | 8/19/2009 | 23:30:00 | 21.96          | 355              | 7.64        |
| 2       | 8/19/2009 | 23:45:00 | 21.91          | 354              | 7.64        |
| 2       | 8/20/2009 | 0:00:00  | 21.73          | 344              | 7.68        |
| 2       | 8/20/2009 | 0:15:00  | 21.64          | 337              | 7.68        |
| 2       | 8/20/2009 | 0:30:00  | 21.59          | 332              | 7.66        |
| 2       | 8/20/2009 | 0:45:00  | 21.49          | 325              | 7.68        |
| 2       | 8/20/2009 | 1:00:00  | 21.39          | 303              | 7.71        |
| 2       | 8/20/2009 | 1:15:00  | 21.2           | 273              | 7.76        |
| 2       | 8/20/2009 | 1:30:00  | 21.01          | 246              | 7.82        |
| 2       | 8/20/2009 | 1:45:00  | 20.93          | 235              | 7.92        |
| 2       | 8/20/2009 | 2:00:00  | 20.91          | 240              | 7.94        |
| 2       | 8/20/2009 | 2:15:00  | 20.9           | 248              | 7.95        |
| 2       | 8/20/2009 | 2:30:00  | 20.94          | 261              | 7.94        |
| 2       | 8/20/2009 | 2:45:00  | 20.9           | 270              | 7.99        |
| 2       | 8/20/2009 | 3:00:00  | 20.76          | 276              | 8.14        |
| 2       | 8/20/2009 | 3:15:00  | 20.85          | 296              | 8.12        |
| 2       | 8/20/2009 | 3:30:00  | 20.97          | 322              | 8.07        |
| 2       | 8/20/2009 | 3:45:00  | 20.98          | 335              | 8.06        |
| 2       | 8/20/2009 | 4:00:00  | 20.87          | 330              | 8.14        |
| 2       | 8/20/2009 | 4:15:00  | 20.67          | 311              | 8.21        |
| 2       | 8/20/2009 | 4:30:00  | 20.53          | 300              | 8.25        |
| 2       | 8/20/2009 | 4:45:00  | 20.5           | 292              | 8.22        |
| 2       | 8/20/2009 | 5:00:00  | 20.49          | 285              | 8.22        |
| 2       | 8/20/2009 | 5:15:00  | 20.46          | 283              | 8.23        |
| 2       | 8/20/2009 | 5:30:00  | 20.42          | 283              | 8.23        |
| 2       | 8/20/2009 | 5:45:00  | 20.38          | 287              | 8.27        |
| 2       | 8/20/2009 | 6:00:00  | 20.35          | 296              | 8.27        |
| 2       | 8/20/2009 | 6:15:00  | 20.33          | 303              | 8.26        |
| 2       | 8/20/2009 | 6:30:00  | 20.31          | 306              | 8.27        |
| 2       | 8/20/2009 | 6:45:00  | 20.27          | 305              | 8.28        |
| 2       | 8/20/2009 | 7:00:00  | 20.24          | 303              | 8.28        |
| 2       | 8/20/2009 | 7:15:00  | 20.21          | 299              | 8.29        |
| 2       | 8/20/2009 | 7:30:00  | 20.19          | 296              | 8.31        |
| 2       | 8/20/2009 | 7:45:00  | 20.16          | 292              | 8.3         |
| 2       | 8/20/2009 | 8:00:00  | 20.14          | 288              | 8.3         |
| 2       | 8/20/2009 | 8:15:00  | 20.12          | 284              | 8.31        |
| 2       | 8/20/2009 | 8:30:00  | 20.11          | 280              | 8.31        |
| 2       | 8/20/2009 | 8:45:00  | 20.1           | 276              | 8.29        |
| 2       | 8/20/2009 | 9:00:00  | 20.1           | 272              | 8.3         |
| 2       | 8/20/2009 | 9:15:00  | 20.1           | 268              | 8.3         |

| Station | Date      | Time     | Temperature<br>°C | Sp.Cond<br>µs/cm | oDO<br>mg/L |
|---------|-----------|----------|-------------------|------------------|-------------|
| 2       | 8/20/2009 | 9:30:00  | 20.11             | 265              | 8.3         |
| 2       | 8/20/2009 | 9:45:00  | 20.13             | 262              | 8.3         |
| 2       | 8/20/2009 | 10:00:00 | 20.15             | 260              | 8.29        |
| 2       | 8/20/2009 | 10:15:00 | 20.17             | 258              | 8.29        |
| 2       | 8/20/2009 | 10:30:00 | 20.18             | 257              | 8.29        |
| 2       | 8/20/2009 | 10:45:00 | 20.2              | 257              | 8.28        |
| 2       | 8/20/2009 | 11:00:00 | 20.21             | 257              | 8.29        |
| 2       | 8/20/2009 | 11:15:00 | 20.23             | 258              | 8.28        |
| 2       | 8/20/2009 | 11:30:00 | 20.26             | 259              | 8.29        |
| 2       | 8/20/2009 | 11:45:00 | 20.31             | 260              | 8.31        |
| 2       | 8/20/2009 | 12:00:00 | 20.37             | 262              | 8.27        |
| 2       | 8/20/2009 | 12:15:00 | 20.46             | 263              | 8.29        |
| 2       | 8/20/2009 | 12:30:00 | 20.58             | 264              | 8.28        |
| 2       | 8/20/2009 | 12:45:00 | 20.74             | 265              | 8.28        |
| 2       | 8/20/2009 | 13:00:00 | 20.91             | 267              | 8.29        |
| 2       | 8/20/2009 | 13:15:00 | 21.08             | 268              | 8.28        |
| 2       | 8/20/2009 | 13:30:00 | 21.25             | 270              | 8.26        |
| 2       | 8/20/2009 | 13:45:00 | 21.39             | 271              | 8.25        |
| 2       | 8/20/2009 | 14:00:00 | 21.5              | 273              | 8.25        |
| 2       | 8/20/2009 | 14:15:00 | 21.58             | 274              | 8.25        |
| 2       | 8/20/2009 | 14:30:00 | 21.64             | 276              | 8.24        |
| 2       | 8/20/2009 | 14:45:00 | 21.69             | 277              | 8.24        |
| 2       | 8/20/2009 | 15:00:00 | 21.73             | 279              | 8.21        |
| 2       | 8/20/2009 | 15:15:00 | 21.76             | 280              | 8.21        |
| 2       | 8/20/2009 | 15:30:00 | 21.77             | 282              | 8.19        |
| 2       | 8/20/2009 | 15:45:00 | 21.8              | 283              | 8.19        |
| 2       | 8/20/2009 | 16:00:00 | 21.82             | 285              | 8.18        |
| 2       | 8/20/2009 | 16:15:00 | 21.85             | 287              | 8.15        |
| 2       | 8/20/2009 | 16:30:00 | 21.88             | 288              | 8.14        |
| 2       | 8/20/2009 | 16:45:00 | 21.92             | 290              | 8.12        |
| 2       | 8/20/2009 | 17:00:00 | 21.95             | 292              | 8.08        |
| 2       | 8/20/2009 | 17:15:00 | 21.98             | 294              | 8.07        |
| 2       | 8/20/2009 | 17:30:00 | 22                | 296              | 8.03        |
| 2       | 8/20/2009 | 17:45:00 | 22                | 297              | 8.03        |
| 2       | 8/20/2009 | 18:00:00 | 22.01             | 299              | 7.99        |
| 2       | 8/20/2009 | 18:15:00 | 22                | 301              | 7.97        |
| 2       | 8/20/2009 | 18:30:00 | 21.99             | 302              | 7.94        |
| 2       | 8/20/2009 | 18:45:00 | 21.97             | 304              | 7.94        |
| 2       | 8/20/2009 | 19:00:00 | 21.95             | 305              | 7.91        |
| 2       | 8/20/2009 | 19:15:00 | 21.91             | 307              | 7.91        |
| 2       | 8/20/2009 | 19:30:00 | 21.87             | 308              | 7.88        |
| 2       | 8/20/2009 | 19:45:00 | 21.83             | 309              | 7.87        |
| 2       | 8/20/2009 | 20:00:00 | 21.79             | 310              | 7.85        |
| 2       | 8/20/2009 | 20:15:00 | 21.74             | 312              | 7.84        |
| 2       | 8/20/2009 | 20:30:00 | 21.69             | 312              | 7.84        |
| 2       | 8/20/2009 | 20:45:00 | 21.65             | 314              | 7.82        |

| Station | Date      | Time     | Temperature °C | Sp.Cond<br>µs/cm | oDO<br>mg/L |
|---------|-----------|----------|----------------|------------------|-------------|
| 2       | 8/20/2009 | 21:00:00 | 21.6           | 315              | 7.81        |
| 2       | 8/20/2009 | 21:15:00 | 21.55          | 316              | 7.81        |
| 2       | 8/20/2009 | 21:30:00 | 21.51          | 317              | 7.79        |
| 2       | 8/20/2009 | 21:45:00 | 21.45          | 318              | 7.76        |
| 2       | 8/20/2009 | 22:00:00 | 21.41          | 319              | 7.77        |
| 2       | 8/20/2009 | 22:15:00 | 21.36          | 320              | 7.76        |
| 2       | 8/20/2009 | 22:30:00 | 21.31          | 321              | 7.77        |
| 2       | 8/20/2009 | 22:45:00 | 21.25          | 322              | 7.73        |
| 2       | 8/20/2009 | 23:00:00 | 21.2           | 323              | 7.74        |
| 2       | 8/20/2009 | 23:15:00 | 21.13          | 324              | 7.74        |
| 2       | 8/20/2009 | 23:30:00 | 21.07          | 325              | 7.74        |
| 2       | 8/20/2009 | 23:45:00 | 21.02          | 326              | 7.72        |
| 2       | 8/21/2009 | 0:00:00  | 20.96          | 326              | 7.71        |
| 2       | 8/21/2009 | 0:15:00  | 20.91          | 327              | 7.73        |
| 2       | 8/21/2009 | 0:30:00  | 20.85          | 328              | 7.71        |
| 2       | 8/21/2009 | 0:45:00  | 20.8           | 328              | 7.71        |
| 2       | 8/21/2009 | 1:00:00  | 20.74          | 329              | 7.7         |
| 2       | 8/21/2009 | 1:15:00  | 20.69          | 330              | 7.71        |
| 2       | 8/21/2009 | 1:30:00  | 20.64          | 331              | 7.71        |
| 2       | 8/21/2009 | 1:45:00  | 20.59          | 332              | 7.71        |
| 2       | 8/21/2009 | 2:00:00  | 20.53          | 333              | 7.71        |
| 2       | 8/21/2009 | 2:15:00  | 20.48          | 333              | 7.72        |
| 2       | 8/21/2009 | 2:30:00  | 20.43          | 334              | 7.72        |
| 2       | 8/21/2009 | 2:45:00  | 20.37          | 335              | 7.72        |
| 2       | 8/21/2009 | 3:00:00  | 20.32          | 336              | 7.71        |
| 2       | 8/21/2009 | 3:15:00  | 20.27          | 337              | 7.71        |
| 2       | 8/21/2009 | 3:30:00  | 20.22          | 338              | 7.72        |
| 2       | 8/21/2009 | 3:45:00  | 20.17          | 338              | 7.74        |
| 2       | 8/21/2009 | 4:00:00  | 20.12          | 339              | 7.74        |
| 2       | 8/21/2009 | 4:15:00  | 20.08          | 340              | 7.74        |
| 2       | 8/21/2009 | 4:30:00  | 20.05          | 341              | 7.72        |
| 2       | 8/21/2009 | 4:45:00  | 20.01          | 342              | 7.73        |
| 2       | 8/21/2009 | 5:00:00  | 19.97          | 342              | 7.73        |
| 2       | 8/21/2009 | 5:15:00  | 19.93          | 343              | 7.74        |
| 2       | 8/21/2009 | 5:30:00  | 19.88          | 344              | 7.73        |
| 2       | 8/21/2009 | 5:45:00  | 19.83          | 344              | 7.72        |
| 2       | 8/21/2009 | 6:00:00  | 19.78          | 345              | 7.74        |
| 2       | 8/21/2009 | 6:15:00  | 19.73          | 345              | 7.74        |
| 2       | 8/21/2009 | 6:30:00  | 19.69          | 346              | 7.75        |
| 2       | 8/21/2009 | 6:45:00  | 19.64          | 347              | 7.72        |
| 2       | 8/21/2009 | 7:00:00  | 19.61          | 347              | 7.74        |
| 2       | 8/21/2009 | 7:15:00  | 19.58          | 348              | 7.75        |
| 2       | 8/21/2009 | 7:30:00  | 19.56          | 348              | 7.75        |
| 2       | 8/21/2009 | 7:45:00  | 19.54          | 349              | 7.76        |
| 2       | 8/21/2009 | 8:00:00  | 19.51          | 350              | 7.75        |
| 2       | 8/21/2009 | 8:15:00  | 19.49          | 350              | 7.76        |

| Station | Date      | Time     | Temperature °C | Sp.Cond<br>µs/cm | oDO<br>mg/L |
|---------|-----------|----------|----------------|------------------|-------------|
| 2       | 8/21/2009 | 8:30:00  | 19.48          | 351              | 7.77        |
| 2       | 8/21/2009 | 8:45:00  | 19.47          | 352              | 7.77        |
| 2       | 8/21/2009 | 9:00:00  | 19.46          | 352              | 7.78        |
| 2       | 8/21/2009 | 9:15:00  | 19.46          | 353              | 7.79        |
| 2       | 8/21/2009 | 9:30:00  | 19.47          | 354              | 7.78        |
| 2       | 8/21/2009 | 9:45:00  | 19.49          | 355              | 7.82        |
| 2       | 8/21/2009 | 10:00:00 | 19.51          | 356              | 7.81        |
| 2       | 8/21/2009 | 10:15:00 | 19.56          | 356              | 7.77        |
| 2       | 8/21/2009 | 10:30:00 | 19.6           | 357              | 7.74        |
| 2       | 8/21/2009 | 10:45:00 | 19.65          | 358              | 7.78        |
| 2       | 8/21/2009 | 11:00:00 | 19.71          | 359              | 7.8         |
| 2       | 8/21/2009 | 11:15:00 | 19.81          | 360              | 7.82        |
| 2       | 8/21/2009 | 11:30:00 | 19.9           | 361              | 7.92        |
| 2       | 8/21/2009 | 11:45:00 | 20.01          | 362              | 7.97        |
| 2       | 8/21/2009 | 12:00:00 | 20.14          | 362              | 7.95        |
| 2       | 8/21/2009 | 12:15:00 | 20.27          | 363              | 8           |
| 2       | 8/21/2009 | 12:30:00 | 20.42          | 364              | 8.05        |
| 2       | 8/21/2009 | 12:45:00 | 20.63          | 365              | 8.06        |
| 2       | 8/21/2009 | 13:00:00 | 20.81          | 366              | 8.11        |
| 2       | 8/21/2009 | 13:15:00 | 20.96          | 367              | 8.11        |
| 2       | 8/21/2009 | 13:30:00 | 21.14          | 367              | 8.15        |
| 2       | 8/21/2009 | 13:45:00 | 21.23          | 368              | 8.16        |
| 2       | 8/21/2009 | 14:00:00 | 21.41          | 368              | 8.17        |
| 2       | 8/21/2009 | 14:15:00 | 21.57          | 369              | 8.21        |
| 2       | 8/21/2009 | 14:30:00 | 21.67          | 369              | 8.2         |
| 2       | 8/21/2009 | 14:45:00 | 21.73          | 369              | 8.15        |
| 2       | 8/21/2009 | 15:00:00 | 21.77          | 369              | 8.17        |
| 2       | 8/21/2009 | 15:15:00 | 21.78          | 369              | 8.16        |
| 2       | 8/21/2009 | 15:30:00 | 21.75          | 369              | 8.17        |
| 2       | 8/21/2009 | 15:45:00 | 21.75          | 369              | 8.16        |
| 2       | 8/21/2009 | 16:00:00 | 21.72          | 369              | 8.14        |
| 2       | 8/21/2009 | 16:15:00 | 21.68          | 369              | 8.12        |
| 2       | 8/21/2009 | 16:30:00 | 21.66          | 368              | 8.09        |
| 2       | 8/21/2009 | 16:45:00 | 21.63          | 369              | 8.1         |
| 2       | 8/21/2009 | 17:00:00 | 21.62          | 368              | 8.05        |
| 2       | 8/21/2009 | 17:15:00 | 21.59          | 369              | 8.06        |
| 2       | 8/21/2009 | 17:30:00 | 21.55          | 369              | 8.04        |
| 2       | 8/21/2009 | 17:45:00 | 21.51          | 369              | 8.02        |
| 2       | 8/21/2009 | 18:00:00 | 21.46          | 369              | 7.97        |
| 2       | 8/21/2009 | 18:15:00 | 21.44          | 369              | 7.94        |
| 2       | 8/21/2009 | 18:30:00 | 21.43          | 369              | 7.93        |
| 2       | 8/21/2009 | 18:45:00 | 21.42          | 370              | 7.87        |
| 2       | 8/21/2009 | 19:00:00 | 21.4           | 371              | 7.89        |
| 2       | 8/21/2009 | 19:15:00 | 21.38          | 370              | 7.86        |
| 2       | 8/21/2009 | 19:30:00 | 21.36          | 371              | 7.85        |
| 2       | 8/21/2009 | 19:45:00 | 21.34          | 372              | 7.8         |

| Station | Date      | Time     | Temperature °C | Sp.Cond<br>µs/cm | oDO<br>mg/L |
|---------|-----------|----------|----------------|------------------|-------------|
| 2       | 8/21/2009 | 20:00:00 | 21.32          | 372              | 7.79        |
| 2       | 8/21/2009 | 20:15:00 | 21.28          | 372              | 7.77        |
| 2       | 8/21/2009 | 20:30:00 | 21.22          | 373              | 7.74        |
| 2       | 8/21/2009 | 20:45:00 | 21.16          | 373              | 7.71        |
| 2       | 8/21/2009 | 21:00:00 | 21.11          | 374              | 7.67        |
| 2       | 8/21/2009 | 21:15:00 | 21.05          | 374              | 7.63        |
| 2       | 8/21/2009 | 21:30:00 | 20.99          | 374              | 7.59        |
| 2       | 8/21/2009 | 21:45:00 | 20.94          | 372              | 7.62        |
| 2       | 8/21/2009 | 22:00:00 | 20.89          | 375              | 7.61        |
| 2       | 8/21/2009 | 22:15:00 | 20.83          | 376              | 7.58        |
| 2       | 8/21/2009 | 22:30:00 | 20.78          | 377              | 7.55        |
| 2       | 8/21/2009 | 22:45:00 | 20.73          | 378              | 7.53        |
| 2       | 8/21/2009 | 23:00:00 | 20.69          | 378              | 7.53        |
| 2       | 8/21/2009 | 23:15:00 | 20.63          | 380              | 7.51        |
| 2       | 8/21/2009 | 23:30:00 | 20.59          | 380              | 7.49        |
| 2       | 8/21/2009 | 23:45:00 | 20.53          | 381              | 7.48        |
| 2       | 8/22/2009 | 0:00:00  | 20.49          | 382              | 7.47        |
| 2       | 8/22/2009 | 0:15:00  | 20.43          | 383              | 7.46        |
| 2       | 8/22/2009 | 0:30:00  | 20.39          | 384              | 7.43        |
| 2       | 8/22/2009 | 0:45:00  | 20.33          | 385              | 7.42        |
| 2       | 8/22/2009 | 1:00:00  | 20.28          | 387              | 7.44        |
| 2       | 8/22/2009 | 1:15:00  | 20.23          | 388              | 7.41        |
| 2       | 8/22/2009 | 1:30:00  | 20.17          | 389              | 7.41        |
| 2       | 8/22/2009 | 1:45:00  | 20.12          | 390              | 7.41        |
| 2       | 8/22/2009 | 2:00:00  | 20.06          | 391              | 7.37        |
| 2       | 8/22/2009 | 2:15:00  | 20.01          | 392              | 7.37        |
| 2       | 8/22/2009 | 2:30:00  | 19.96          | 394              | 7.37        |
| 2       | 8/22/2009 | 2:45:00  | 19.9           | 394              | 7.37        |
| 2       | 8/22/2009 | 3:00:00  | 19.85          | 395              | 7.36        |
| 2       | 8/22/2009 | 3:15:00  | 19.79          | 396              | 7.38        |
| 2       | 8/22/2009 | 3:30:00  | 19.73          | 397              | 7.37        |
| 2       | 8/22/2009 | 3:45:00  | 19.68          | 398              | 7.4         |
| 2       | 8/22/2009 | 4:00:00  | 19.63          | 398              | 7.4         |
| 2       | 8/22/2009 | 4:15:00  | 19.58          | 399              | 7.37        |
| 2       | 8/22/2009 | 4:30:00  | 19.53          | 400              | 7.4         |
| 2       | 8/22/2009 | 4:45:00  | 19.47          | 400              | 7.42        |
| 2       | 8/22/2009 | 5:00:00  | 19.42          | 401              | 7.41        |
| 2       | 8/22/2009 | 5:15:00  | 19.37          | 402              | 7.43        |
| 2       | 8/22/2009 | 5:30:00  | 19.32          | 402              | 7.43        |
| 2       | 8/22/2009 | 5:45:00  | 19.27          | 403              | 7.42        |
| 2       | 8/22/2009 | 6:00:00  | 19.22          | 404              | 7.41        |
| 2       | 8/22/2009 | 6:15:00  | 19.17          | 404              | 7.44        |
| 2       | 8/22/2009 | 6:30:00  | 19.12          | 405              | 7.42        |
| 2       | 8/22/2009 | 6:45:00  | 19.08          | 405              | 7.44        |
| 2       | 8/22/2009 | 7:00:00  | 19.03          | 406              | 7.46        |
| 2       | 8/22/2009 | 7:15:00  | 18.99          | 407              | 7.47        |

| Station | Date      | Time     | Temperature °C | Sp.Cond<br>µs/cm | oDO<br>mg/L |
|---------|-----------|----------|----------------|------------------|-------------|
| 2       | 8/22/2009 | 7:30:00  | 18.95          | 407              | 7.49        |
| 2       | 8/22/2009 | 7:45:00  | 18.92          | 407              | 7.47        |
| 2       | 8/22/2009 | 8:00:00  | 18.89          | 407              | 7.48        |
| 2       | 8/22/2009 | 8:15:00  | 18.87          | 408              | 7.49        |
| 2       | 8/22/2009 | 8:30:00  | 18.85          | 408              | 7.5         |
| 2       | 8/22/2009 | 8:45:00  | 18.84          | 409              | 7.49        |
| 2       | 8/22/2009 | 9:00:00  | 18.83          | 409              | 7.51        |
| 2       | 8/22/2009 | 9:15:00  | 18.83          | 409              | 7.52        |
| 2       | 8/22/2009 | 9:30:00  | 18.84          | 409              | 7.53        |
| 2       | 8/22/2009 | 9:45:00  | 18.85          | 409              | 7.52        |
| 2       | 8/22/2009 | 10:00:00 | 18.88          | 409              | 7.53        |
| 2       | 8/22/2009 | 10:15:00 | 18.91          | 409              | 7.51        |
| 2       | 8/22/2009 | 10:30:00 | 18.92          | 409              | 7.52        |
| 2       | 8/22/2009 | 10:45:00 | 18.95          | 408              | 7.51        |
| 2       | 8/22/2009 | 11:00:00 | 19             | 408              | 7.54        |
| 2       | 8/22/2009 | 11:15:00 | 19.06          | 408              | 7.57        |
| 2       | 8/22/2009 | 11:30:00 | 19.13          | 408              | 7.59        |
| 2       | 8/22/2009 | 11:45:00 | 19.26          | 408              | 7.62        |
| 2       | 8/22/2009 | 12:00:00 | 19.43          | 408              | 7.62        |
| 2       | 8/22/2009 | 12:15:00 | 19.59          | 408              | 7.67        |
| 2       | 8/22/2009 | 12:30:00 | 19.73          | 408              | 7.73        |
| 2       | 8/22/2009 | 12:45:00 | 19.94          | 409              | 7.77        |
| 2       | 8/22/2009 | 13:00:00 | 20.13          | 409              | 7.84        |
| 2       | 8/22/2009 | 13:15:00 | 20.26          | 410              | 7.86        |
| 2       | 8/22/2009 | 13:30:00 | 20.37          | 410              | 7.92        |
| 2       | 8/22/2009 | 13:45:00 | 20.49          | 410              | 7.94        |
| 2       | 8/22/2009 | 14:00:00 | 20.63          | 411              | 7.97        |
| 2       | 8/22/2009 | 14:15:00 | 20.84          | 411              | 7.97        |
| 2       | 8/22/2009 | 14:30:00 | 20.98          | 412              | 8.05        |
| 2       | 8/22/2009 | 14:45:00 | 21.07          | 413              | 8.08        |
| 2       | 8/22/2009 | 15:00:00 | 21.18          | 414              | 8.05        |
| 2       | 8/22/2009 | 15:15:00 | 21.34          | 415              | 8.09        |
| 2       | 8/22/2009 | 15:30:00 | 21.49          | 416              | 8.11        |
| 2       | 8/22/2009 | 15:45:00 | 21.56          | 417              | 8.14        |
| 2       | 8/22/2009 | 16:00:00 | 21.61          | 418              | 8.14        |
| 2       | 8/22/2009 | 16:15:00 | 21.65          | 419              | 8.1         |
| 2       | 8/22/2009 | 16:30:00 | 21.7           | 420              | 8.12        |
| 2       | 8/22/2009 | 16:45:00 | 21.74          | 421              | 8.1         |
| 2       | 8/22/2009 | 17:00:00 | 21.75          | 422              | 8.09        |
| 2       | 8/22/2009 | 17:15:00 | 21.74          | 423              | 8.03        |
| 2       | 8/22/2009 | 17:30:00 | 21.69          | 425              | 8.02        |
| 2       | 8/22/2009 | 17:45:00 | 21.64          | 426              | 7.98        |
| 2       | 8/22/2009 | 18:00:00 | 21.57          | 427              | 8.02        |
| 2       | 8/22/2009 | 18:15:00 | 21.51          | 428              | 8           |
| 2       | 8/22/2009 | 18:30:00 | 21.45          | 429              | 7.96        |
| 2       | 8/22/2009 | 18:45:00 | 21.38          | 430              | 7.95        |

| Station | Date      | Time     | Temperature °C | Sp.Cond<br>µs/cm | oDO<br>mg/L |
|---------|-----------|----------|----------------|------------------|-------------|
| 2       | 8/22/2009 | 19:00:00 | 21.32          | 431              | 7.9         |
| 2       | 8/22/2009 | 19:15:00 | 21.26          | 432              | 7.85        |
| 2       | 8/22/2009 | 19:30:00 | 21.22          | 433              | 7.83        |
| 2       | 8/22/2009 | 19:45:00 | 21.18          | 434              | 7.8         |
| 2       | 8/22/2009 | 20:00:00 | 21.14          | 434              | 7.75        |
| 2       | 8/22/2009 | 20:15:00 | 21.1           | 435              | 7.74        |
| 2       | 8/22/2009 | 20:30:00 | 21.06          | 436              | 7.72        |
| 2       | 8/22/2009 | 20:45:00 | 21.03          | 437              | 7.71        |
| 2       | 8/22/2009 | 21:00:00 | 20.98          | 438              | 7.69        |
| 2       | 8/22/2009 | 21:15:00 | 20.94          | 439              | 7.67        |
| 2       | 8/22/2009 | 21:30:00 | 20.89          | 440              | 7.63        |
| 2       | 8/22/2009 | 21:45:00 | 20.82          | 441              | 7.62        |
| 2       | 8/22/2009 | 22:00:00 | 20.77          | 441              | 7.6         |
| 2       | 8/22/2009 | 22:15:00 | 20.71          | 442              | 7.58        |
| 2       | 8/22/2009 | 22:30:00 | 20.63          | 442              | 7.54        |
| 2       | 8/22/2009 | 22:45:00 | 20.56          | 443              | 7.52        |
| 2       | 8/22/2009 | 23:00:00 | 20.49          | 444              | 7.53        |
| 2       | 8/22/2009 | 23:15:00 | 20.41          | 444              | 7.5         |
| 2       | 8/22/2009 | 23:30:00 | 20.36          | 444              | 7.49        |
| 2       | 8/22/2009 | 23:45:00 | 20.28          | 445              | 7.47        |
| 2       | 8/23/2009 | 0:00:00  | 20.23          | 445              | 7.43        |
| 2       | 8/23/2009 | 0:15:00  | 20.17          | 445              | 7.41        |
| 2       | 8/23/2009 | 0:30:00  | 20.11          | 445              | 7.4         |
| 2       | 8/23/2009 | 0:45:00  | 20.06          | 446              | 7.39        |
| 2       | 8/23/2009 | 1:00:00  | 20.02          | 446              | 7.37        |
| 2       | 8/23/2009 | 1:15:00  | 19.97          | 446              | 7.39        |
| 2       | 8/23/2009 | 1:30:00  | 19.93          | 446              | 7.39        |
| 2       | 8/23/2009 | 1:45:00  | 19.89          | 446              | 7.36        |
| 2       | 8/23/2009 | 2:00:00  | 19.84          | 446              | 7.35        |
| 2       | 8/23/2009 | 2:15:00  | 19.8           | 446              | 7.35        |
| 2       | 8/23/2009 | 2:30:00  | 19.76          | 446              | 7.34        |
| 2       | 8/23/2009 | 2:45:00  | 19.72          | 446              | 7.34        |
| 2       | 8/23/2009 | 3:00:00  | 19.67          | 447              | 7.31        |
| 2       | 8/23/2009 | 3:15:00  | 19.63          | 447              | 7.28        |
| 2       | 8/23/2009 | 3:30:00  | 19.59          | 447              | 7.27        |
| 2       | 8/23/2009 | 3:45:00  | 19.55          | 447              | 7.23        |
| 2       | 8/23/2009 | 4:00:00  | 19.51          | 447              | 7.24        |
| 2       | 8/23/2009 | 4:15:00  | 19.46          | 447              | 7.23        |
| 2       | 8/23/2009 | 4:30:00  | 19.41          | 447              | 7.19        |
| 2       | 8/23/2009 | 4:45:00  | 19.36          | 447              | 7.2         |
| 2       | 8/23/2009 | 5:00:00  | 19.31          | 448              | 7.16        |
| 2       | 8/23/2009 | 5:15:00  | 19.25          | 448              | 7.19        |
| 2       | 8/23/2009 | 5:30:00  | 19.2           | 449              | 7.18        |
| 2       | 8/23/2009 | 5:45:00  | 19.13          | 449              | 7.15        |
| 2       | 8/23/2009 | 6:00:00  | 19.07          | 450              | 7.15        |
| 2       | 8/23/2009 | 6:15:00  | 19.03          | 451              | 7.11        |

| Station | Date      | Time     | Temperature °C | Sp.Cond<br>µs/cm | oDO<br>mg/L |
|---------|-----------|----------|----------------|------------------|-------------|
| 2       | 8/23/2009 | 6:30:00  | 18.97          | 452              | 7.13        |
| 2       | 8/23/2009 | 6:45:00  | 18.92          | 453              | 7.14        |
| 2       | 8/23/2009 | 7:00:00  | 18.87          | 454              | 7.13        |
| 2       | 8/23/2009 | 7:15:00  | 18.81          | 455              | 7.11        |
| 2       | 8/23/2009 | 7:30:00  | 18.77          | 456              | 7.11        |
| 2       | 8/23/2009 | 7:45:00  | 18.73          | 457              | 7.13        |
| 2       | 8/23/2009 | 8:00:00  | 18.71          | 458              | 7.1         |
| 2       | 8/23/2009 | 8:15:00  | 18.69          | 459              | 7.16        |
| 2       | 8/23/2009 | 8:30:00  | 18.69          | 460              | 7.18        |
| 2       | 8/23/2009 | 8:45:00  | 18.7           | 461              | 7.17        |
| 2       | 8/23/2009 | 9:00:00  | 18.7           | 463              | 7.15        |
| 2       | 8/23/2009 | 9:15:00  | 18.72          | 464              | 7.19        |
| 2       | 8/23/2009 | 9:30:00  | 18.75          | 465              | 7.23        |
| 2       | 8/23/2009 | 9:45:00  | 18.79          | 466              | 7.21        |
| 2       | 8/23/2009 | 10:00:00 | 18.82          | 467              | 7.23        |
| 2       | 8/23/2009 | 10:15:00 | 18.85          | 468              | 7.23        |
| 2       | 8/23/2009 | 10:30:00 | 18.87          | 469              | 7.26        |
| 2       | 8/23/2009 | 10:45:00 | 18.89          | 470              | 7.24        |
| 2       | 8/23/2009 | 11:00:00 | 18.93          | 471              | 7.29        |
| 2       | 8/23/2009 | 11:15:00 | 18.99          | 471              | 7.28        |
| 2       | 8/23/2009 | 11:30:00 | 19.07          | 472              | 7.27        |
| 2       | 8/23/2009 | 11:45:00 | 19.19          | 473              | 7.31        |
| 2       | 8/23/2009 | 12:00:00 | 19.32          | 473              | 7.31        |
| 2       | 8/23/2009 | 12:15:00 | 19.46          | 474              | 7.33        |
| 2       | 8/23/2009 | 12:30:00 | 19.64          | 474              | 7.37        |
| 2       | 8/23/2009 | 12:45:00 | 19.89          | 475              | 7.45        |
| 2       | 8/23/2009 | 13:00:00 | 20.15          | 475              | 7.49        |
| 2       | 8/23/2009 | 13:15:00 | 20.37          | 476              | 7.54        |
| 2       | 8/23/2009 | 13:30:00 | 20.56          | 476              | 7.57        |
| 2       | 8/23/2009 | 13:45:00 | 20.7           | 477              | 7.52        |
| 2       | 8/23/2009 | 14:00:00 | 20.86          | 477              | 7.56        |
| 2       | 8/23/2009 | 14:15:00 | 21.03          | 478              | 7.6         |
| 2       | 8/23/2009 | 14:30:00 | 21.17          | 478              | 7.67        |
| 2       | 8/23/2009 | 14:45:00 | 21.31          | 478              | 7.75        |
| 2       | 8/23/2009 | 15:00:00 | 21.46          | 479              | 7.78        |
| 2       | 8/23/2009 | 15:15:00 | 21.54          | 479              | 7.78        |
| 2       | 8/23/2009 | 15:30:00 | 21.61          | 479              | 7.81        |
| 2       | 8/23/2009 | 15:45:00 | 21.64          | 479              | 7.81        |
| 2       | 8/23/2009 | 16:00:00 | 21.69          | 479              | 7.79        |
| 2       | 8/23/2009 | 16:15:00 | 21.72          | 479              | 7.81        |
| 2       | 8/23/2009 | 16:30:00 | 21.79          | 479              | 7.8         |
| 2       | 8/23/2009 | 16:45:00 | 21.85          | 478              | 7.83        |
| 2       | 8/23/2009 | 17:00:00 | 21.92          | 478              | 7.83        |
| 2       | 8/23/2009 | 17:15:00 | 21.97          | 478              | 7.81        |
| 2       | 8/23/2009 | 17:30:00 | 22.03          | 478              | 7.88        |
| 2       | 8/23/2009 | 17:45:00 | 22.06          | 477              | 7.89        |

| Station | Date      | Time     | Temperature °C | Sp.Cond<br>µs/cm | oDO<br>mg/L |
|---------|-----------|----------|----------------|------------------|-------------|
| 2       | 8/23/2009 | 18:00:00 | 22.06          | 477              | 7.81        |
| 2       | 8/23/2009 | 18:15:00 | 22.04          | 477              | 7.87        |
| 2       | 8/23/2009 | 18:30:00 | 22.01          | 477              | 7.77        |
| 2       | 8/23/2009 | 18:45:00 | 21.96          | 476              | 7.76        |
| 2       | 8/23/2009 | 19:00:00 | 21.89          | 476              | 7.78        |
| 2       | 8/23/2009 | 19:15:00 | 21.83          | 476              | 7.7         |
| 2       | 8/23/2009 | 19:30:00 | 21.76          | 475              | 7.68        |
| 2       | 8/23/2009 | 19:45:00 | 21.68          | 475              | 7.74        |
| 2       | 8/23/2009 | 20:00:00 | 21.6           | 475              | 7.66        |
| 2       | 8/23/2009 | 20:15:00 | 21.53          | 475              | 7.62        |
| 2       | 8/23/2009 | 20:30:00 | 21.46          | 475              | 7.6         |
| 2       | 8/23/2009 | 20:45:00 | 21.38          | 474              | 7.57        |
| 2       | 8/23/2009 | 21:00:00 | 21.3           | 473              | 7.55        |
| 2       | 8/23/2009 | 21:15:00 | 21.23          | 474              | 7.48        |
| 2       | 8/23/2009 | 21:30:00 | 21.15          | 474              | 7.56        |
| 2       | 8/23/2009 | 21:45:00 | 21.07          | 474              | 7.51        |
| 2       | 8/23/2009 | 22:00:00 | 21.02          | 473              | 7.48        |
| 2       | 8/23/2009 | 22:15:00 | 20.95          | 473              | 7.44        |
| 2       | 8/23/2009 | 22:30:00 | 20.88          | 473              | 7.46        |
| 2       | 8/23/2009 | 22:45:00 | 20.8           | 474              | 7.38        |
| 2       | 8/23/2009 | 23:00:00 | 20.75          | 474              | 7.35        |
| 2       | 8/23/2009 | 23:15:00 | 20.66          | 474              | 7.35        |
| 2       | 8/23/2009 | 23:30:00 | 20.59          | 474              | 7.32        |
| 2       | 8/23/2009 | 23:45:00 | 20.51          | 474              | 7.3         |
| 2       | 8/24/2009 | 0:00:00  | 20.44          | 474              | 7.31        |
| 2       | 8/24/2009 | 0:15:00  | 20.36          | 474              | 7.3         |
| 2       | 8/24/2009 | 0:30:00  | 20.29          | 475              | 7.28        |
| 2       | 8/24/2009 | 0:45:00  | 20.21          | 475              | 7.3         |
| 2       | 8/24/2009 | 1:00:00  | 20.14          | 475              | 7.23        |
| 2       | 8/24/2009 | 1:15:00  | 20.05          | 476              | 7.11        |
| 2       | 8/24/2009 | 1:30:00  | 19.97          | 476              | 7.19        |
| 2       | 8/24/2009 | 1:45:00  | 19.91          | 476              | 7.17        |
| 2       | 8/24/2009 | 2:00:00  | 19.83          | 477              | 7.17        |
| 2       | 8/24/2009 | 2:15:00  | 19.74          | 477              | 7.18        |
| 2       | 8/24/2009 | 2:30:00  | 19.67          | 478              | 7.16        |
| 2       | 8/24/2009 | 2:45:00  | 19.59          | 478              | 7.15        |
| 2       | 8/24/2009 | 3:00:00  | 19.52          | 478              | 7.12        |
| 2       | 8/24/2009 | 3:15:00  | 19.46          | 479              | 7.13        |
| 2       | 8/24/2009 | 3:30:00  | 19.38          | 480              | 7.1         |
| 2       | 8/24/2009 | 3:45:00  | 19.32          | 480              | 7.1         |
| 2       | 8/24/2009 | 4:00:00  | 19.27          | 481              | 7.07        |
| 2       | 8/24/2009 | 4:15:00  | 19.2           | 481              | 7.08        |
| 2       | 8/24/2009 | 4:30:00  | 19.13          | 481              | 7.07        |
| 2       | 8/24/2009 | 4:45:00  | 19.06          | 482              | 7.1         |
| 2       | 8/24/2009 | 5:00:00  | 19.01          | 482              | 7.08        |
| 2       | 8/24/2009 | 5:15:00  | 18.97          | 482              | 7.06        |

| Station | Date      | Time     | Temperature °C | Sp.Cond<br>µs/cm | oDO<br>mg/L |
|---------|-----------|----------|----------------|------------------|-------------|
| 2       | 8/24/2009 | 5:30:00  | 18.91          | 483              | 7.07        |
| 2       | 8/24/2009 | 5:45:00  | 18.84          | 483              | 7.07        |
| 2       | 8/24/2009 | 6:00:00  | 18.78          | 484              | 7.05        |
| 2       | 8/24/2009 | 6:15:00  | 18.72          | 484              | 7.04        |
| 2       | 8/24/2009 | 6:30:00  | 18.67          | 484              | 7.07        |
| 2       | 8/24/2009 | 6:45:00  | 18.6           | 485              | 7.06        |
| 2       | 8/24/2009 | 7:00:00  | 18.56          | 485              | 7.04        |
| 2       | 8/24/2009 | 7:15:00  | 18.53          | 485              | 7.03        |
| 2       | 8/24/2009 | 7:30:00  | 18.49          | 485              | 7.06        |
| 2       | 8/24/2009 | 7:45:00  | 18.45          | 486              | 7.09        |
| 2       | 8/24/2009 | 8:00:00  | 18.44          | 486              | 7.1         |
| 2       | 8/24/2009 | 8:15:00  | 18.44          | 486              | 7.08        |
| 2       | 8/24/2009 | 8:30:00  | 18.45          | 487              | 7.11        |
| 2       | 8/24/2009 | 8:45:00  | 18.46          | 487              | 7.11        |
| 2       | 8/24/2009 | 9:00:00  | 18.48          | 487              | 7.11        |
| 2       | 8/24/2009 | 9:15:00  | 18.51          | 487              | 7.12        |
| 2       | 8/24/2009 | 9:30:00  | 18.55          | 488              | 7.13        |
| 2       | 8/24/2009 | 9:45:00  | 18.6           | 488              | 7.14        |
| 2       | 8/24/2009 | 10:00:00 | 18.65          | 488              | 7.14        |
| 2       | 8/24/2009 | 10:15:00 | 18.7           | 489              | 7.15        |
| 2       | 8/24/2009 | 10:30:00 | 18.72          | 489              | 7.18        |
| 2       | 8/24/2009 | 10:45:00 | 18.75          | 489              | 7.15        |
| 2       | 8/24/2009 | 11:00:00 | 18.79          | 489              | 7.13        |
| 2       | 8/24/2009 | 11:15:00 | 18.86          | 490              | 7.13        |
| 2       | 8/24/2009 | 11:30:00 | 18.92          | 490              | 7.16        |
| 2       | 8/24/2009 | 11:45:00 | 19.03          | 490              | 7.15        |
| 2       | 8/24/2009 | 12:00:00 | 19.21          | 490              | 7.11        |
| 2       | 8/24/2009 | 12:15:00 | 19.34          | 491              | 7.15        |
| 2       | 8/24/2009 | 12:30:00 | 19.48          | 491              | 7.15        |
| 2       | 8/24/2009 | 12:45:00 | 19.69          | 491              | 7.09        |
| 2       | 8/24/2009 | 13:00:00 | 19.45          | 492              | 6.46        |
| 2       | 8/24/2009 | 13:15:00 | 19.55          | 492              | 6.11        |
| 2       | 8/24/2009 | 13:30:00 | 19.66          | 492              | 6.16        |
| 2       | 8/24/2009 | 13:45:00 | 19.96          | 492              | 6.29        |
| 2       | 8/24/2009 | 14:00:00 | 20.69          | 490              | 6.28        |
| 2       | 8/24/2009 | 14:15:00 | 20.9           | 489              | 6.76        |
| 2       | 8/24/2009 | 14:30:00 | 21.24          | 495              | 7.11        |
| 2       | 8/24/2009 | 14:45:00 | 21.39          | 495              | 7.31        |
| 2       | 8/24/2009 | 15:00:00 | 21.59          | 496              | 7.34        |
| 2       | 8/24/2009 | 15:15:00 | 21.78          | 495              | 7.36        |
| 2       | 8/24/2009 | 15:30:00 | 21.85          | 496              | 7.5         |
| 2       | 8/24/2009 | 15:45:00 | 21.95          | 497              | 7.64        |
| 2       | 8/24/2009 | 16:00:00 | 22.02          | 497              | 7.7         |
| 2       | 8/24/2009 | 16:15:00 | 22.06          | 497              | 7.7         |
| 2       | 8/24/2009 | 16:30:00 | 22.11          | 499              | 7.74        |
| 2       | 8/24/2009 | 16:45:00 | 22.18          | 499              | 7.72        |

| Station | Date      | Time     | Temperature °C | Sp.Cond<br>µs/cm | oDO<br>mg/L |
|---------|-----------|----------|----------------|------------------|-------------|
| 2       | 8/24/2009 | 17:00:00 | 22.23          | 500              | 7.77        |
| 2       | 8/24/2009 | 17:15:00 | 22.29          | 501              | 7.8         |
| 2       | 8/24/2009 | 17:30:00 | 22.34          | 501              | 7.79        |
| 2       | 8/24/2009 | 17:45:00 | 22.38          | 502              | 7.84        |
| 2       | 8/24/2009 | 18:00:00 | 22.39          | 503              | 7.86        |
| 2       | 8/24/2009 | 18:15:00 | 22.4           | 503              | 7.86        |
| 2       | 8/24/2009 | 18:30:00 | 22.42          | 503              | 7.87        |
| 2       | 8/24/2009 | 18:45:00 | 22.41          | 504              | 7.87        |
| 2       | 8/24/2009 | 19:00:00 | 22.39          | 505              | 7.86        |
| 2       | 8/24/2009 | 19:15:00 | 22.36          | 506              | 7.85        |
| 2       | 8/24/2009 | 19:30:00 | 22.31          | 506              | 7.84        |
| 2       | 8/24/2009 | 19:45:00 | 22.27          | 507              | 7.8         |
| 2       | 8/24/2009 | 20:00:00 | 22.22          | 507              | 7.79        |
| 2       | 8/24/2009 | 20:15:00 | 22.16          | 507              | 7.76        |
| 2       | 8/24/2009 | 20:30:00 | 22.11          | 508              | 7.73        |
| 2       | 8/24/2009 | 20:45:00 | 22.06          | 508              | 7.71        |
| 2       | 8/24/2009 | 21:00:00 | 22             | 509              | 7.67        |
| 2       | 8/24/2009 | 21:15:00 | 21.95          | 509              | 7.63        |
| 2       | 8/24/2009 | 21:30:00 | 21.9           | 510              | 7.62        |
| 2       | 8/24/2009 | 21:45:00 | 21.84          | 511              | 7.6         |
| 2       | 8/24/2009 | 22:00:00 | 21.8           | 511              | 7.57        |
| 2       | 8/24/2009 | 22:15:00 | 21.74          | 512              | 7.54        |
| 2       | 8/24/2009 | 22:30:00 | 21.69          | 512              | 7.53        |
| 2       | 8/24/2009 | 22:45:00 | 21.64          | 513              | 7.5         |
| 2       | 8/24/2009 | 23:00:00 | 21.58          | 514              | 7.5         |
| 2       | 8/24/2009 | 23:15:00 | 21.53          | 514              | 7.45        |
| 2       | 8/24/2009 | 23:30:00 | 21.48          | 515              | 7.54        |
| 2       | 8/24/2009 | 23:45:00 | 21.42          | 515              | 7.52        |
| 2       | 8/25/2009 | 0:00:00  | 21.37          | 516              | 7.51        |
| 2       | 8/25/2009 | 0:15:00  | 21.32          | 516              | 7.48        |
| 2       | 8/25/2009 | 0:30:00  | 21.27          | 517              | 7.45        |
| 2       | 8/25/2009 | 0:45:00  | 21.23          | 518              | 7.43        |
| 2       | 8/25/2009 | 1:00:00  | 21.18          | 518              | 7.39        |
| 2       | 8/25/2009 | 1:15:00  | 21.13          | 519              | 7.37        |
| 2       | 8/25/2009 | 1:30:00  | 21.08          | 519              | 7.35        |
| 2       | 8/25/2009 | 1:45:00  | 21.01          | 520              | 7.34        |
| 2       | 8/25/2009 | 2:00:00  | 20.97          | 520              | 7.29        |
| 2       | 8/25/2009 | 2:15:00  | 20.92          | 520              | 7.29        |
| 2       | 8/25/2009 | 2:30:00  | 20.87          | 522              | 7.26        |
| 2       | 8/25/2009 | 2:45:00  | 20.8           | 522              | 7.25        |
| 2       | 8/25/2009 | 3:00:00  | 20.74          | 522              | 7.21        |
| 2       | 8/25/2009 | 3:15:00  | 20.69          | 523              | 7.19        |
| 2       | 8/25/2009 | 3:30:00  | 20.63          | 523              | 7.18        |
| 2       | 8/25/2009 | 3:45:00  | 20.58          | 523              | 7.16        |
| 2       | 8/25/2009 | 4:00:00  | 20.53          | 523              | 7.18        |
| 2       | 8/25/2009 | 4:15:00  | 20.48          | 524              | 7.17        |

| Station | Date      | Time     | Temperature °C | Sp.Cond<br>µs/cm | oDO<br>mg/L |
|---------|-----------|----------|----------------|------------------|-------------|
| 2       | 8/25/2009 | 4:30:00  | 20.42          | 524              | 7.16        |
| 2       | 8/25/2009 | 4:45:00  | 20.38          | 524              | 7.14        |
| 2       | 8/25/2009 | 5:00:00  | 20.34          | 522              | 7.11        |
| 2       | 8/25/2009 | 5:15:00  | 20.3           | 523              | 7.11        |
| 2       | 8/25/2009 | 5:30:00  | 20.26          | 523              | 7.11        |
| 2       | 8/25/2009 | 5:45:00  | 20.23          | 523              | 7.07        |
| 2       | 8/25/2009 | 6:00:00  | 20.2           | 523              | 7.07        |
| 2       | 8/25/2009 | 6:15:00  | 20.16          | 522              | 7.03        |
| 2       | 8/25/2009 | 6:30:00  | 20.13          | 522              | 7.03        |
| 2       | 8/25/2009 | 6:45:00  | 20.09          | 521              | 7.03        |
| 2       | 8/25/2009 | 7:00:00  | 20.07          | 522              | 7           |
| 2       | 8/25/2009 | 7:15:00  | 20.05          | 521              | 7           |
| 2       | 8/25/2009 | 7:30:00  | 20.03          | 521              | 7           |
| 2       | 8/25/2009 | 7:45:00  | 20.01          | 521              | 6.99        |
| 2       | 8/25/2009 | 8:00:00  | 20             | 521              | 6.99        |
| 2       | 8/25/2009 | 8:15:00  | 19.99          | 520              | 7           |
| 2       | 8/25/2009 | 8:30:00  | 19.99          | 520              | 6.98        |
| 2       | 8/25/2009 | 8:45:00  | 19.98          | 520              | 6.98        |
| 2       | 8/25/2009 | 9:00:00  | 19.98          | 520              | 6.98        |
| 2       | 8/25/2009 | 9:15:00  | 20             | 519              | 7.01        |
| 2       | 8/25/2009 | 9:30:00  | 20.03          | 519              | 7           |
| 2       | 8/25/2009 | 9:45:00  | 20.09          | 519              | 7.01        |
| 2       | 8/25/2009 | 10:00:00 | 20.11          | 519              | 7.08        |
| 2       | 8/25/2009 | 10:15:00 | 20.17          | 519              | 7.09        |
| 2       | 8/25/2009 | 10:30:00 | 20.19          | 519              | 7.11        |
| 2       | 8/25/2009 | 10:45:00 | 20.23          | 518              | 7.09        |
| 2       | 8/25/2009 | 11:00:00 | 20.24          | 518              | 7.08        |
| 2       | 8/25/2009 | 11:15:00 | 20.32          | 518              | 7.12        |
| 2       | 8/25/2009 | 11:30:00 | 20.4           | 518              | 7.15        |
| 2       | 8/25/2009 | 11:45:00 | 20.48          | 518              | 7.16        |
| 2       | 8/25/2009 | 12:00:00 | 20.61          | 518              | 7.19        |
| 2       | 8/25/2009 | 12:15:00 | 20.7           | 518              | 7.21        |
| 2       | 8/25/2009 | 12:30:00 | 20.9           | 518              | 7.23        |
| 2       | 8/25/2009 | 12:45:00 | 20.84          | 519              | 7.16        |
| 2       | 8/25/2009 | 13:00:00 | 20.72          | 518              | 6.72        |
| 2       | 8/25/2009 | 13:15:00 | 20.83          | 518              | 6.6         |
| 2       | 8/25/2009 | 13:30:00 | 20.88          | 519              | 6.55        |
| 2       | 8/25/2009 | 13:45:00 | 20.99          | 519              | 6.84        |
| 2       | 8/25/2009 | 14:00:00 | 21.05          | 518              | 6.87        |
| 2       | 8/25/2009 | 14:15:00 | 21.2           | 520              | 6.89        |
| 2       | 8/25/2009 | 14:30:00 | 21.3           | 519              | 6.83        |
| 2       | 8/25/2009 | 14:45:00 | 21.22          | 520              | 6.75        |
| 2       | 8/25/2009 | 15:00:00 | 21.39          | 520              | 6.65        |
| 2       | 8/25/2009 | 15:15:00 | 21.62          | 520              | 6.65        |
| 2       | 8/25/2009 | 15:30:00 | 21.75          | 520              | 6.38        |
| 2       | 8/25/2009 | 15:45:00 | 21.87          | 521              | 6.49        |

| Station | Date      | Time     | Temperature °C | Sp.Cond<br>µs/cm | oDO<br>mg/L |
|---------|-----------|----------|----------------|------------------|-------------|
| 2       | 8/25/2009 | 16:00:00 | 22.08          | 520              | 6.51        |
| 2       | 8/25/2009 | 16:15:00 | 22.08          | 521              | 6.63        |
| 2       | 8/25/2009 | 16:30:00 | 22.3           | 520              | 6.89        |
| 2       | 8/25/2009 | 16:45:00 | 22.54          | 519              | 6.76        |
| 2       | 8/25/2009 | 17:00:00 | 22.28          | 521              | 6.55        |
| 2       | 8/25/2009 | 17:15:00 | 22.74          | 521              | 7.04        |
| 2       | 8/25/2009 | 17:30:00 | 23.03          | 520              | 7.25        |
| 2       | 8/25/2009 | 17:45:00 | 23.49          | 521              | 7.21        |
| 2       | 8/25/2009 | 18:00:00 | 22.96          | 521              | 7.39        |
| 2       | 8/25/2009 | 18:15:00 | 23.56          | 521              | 7.6         |
| 2       | 8/25/2009 | 18:30:00 | 23.54          | 522              | 7.89        |
| 2       | 8/25/2009 | 18:45:00 | 23.67          | 520              | 7.86        |
| 2       | 8/25/2009 | 19:00:00 | 23.9           | 523              | 7.84        |
| 2       | 8/25/2009 | 19:15:00 | 23.86          | 524              | 7.84        |
| 2       | 8/25/2009 | 19:30:00 | 23.86          | 524              | 7.82        |
| 2       | 8/25/2009 | 19:45:00 | 23.86          | 524              | 7.81        |
| 2       | 8/25/2009 | 20:00:00 | 23.82          | 524              | 7.8         |
| 2       | 8/25/2009 | 20:15:00 | 23.78          | 525              | 7.75        |
| 2       | 8/25/2009 | 20:30:00 | 23.75          | 525              | 7.75        |
| 2       | 8/25/2009 | 20:45:00 | 23.71          | 525              | 7.71        |
| 2       | 8/25/2009 | 21:00:00 | 23.64          | 525              | 7.67        |
| 2       | 8/25/2009 | 21:15:00 | 23.61          | 526              | 7.64        |
| 2       | 8/25/2009 | 21:30:00 | 23.57          | 527              | 7.58        |
| 2       | 8/25/2009 | 21:45:00 | 23.52          | 527              | 7.59        |
| 2       | 8/25/2009 | 22:00:00 | 23.49          | 527              | 7.57        |
| 2       | 8/25/2009 | 22:15:00 | 23.47          | 528              | 7.54        |
| 2       | 8/25/2009 | 22:30:00 | 23.43          | 527              | 7.52        |
| 2       | 8/25/2009 | 22:45:00 | 23.38          | 528              | 7.49        |
| 2       | 8/25/2009 | 23:00:00 | 23.35          | 529              | 7.47        |
| 2       | 8/25/2009 | 23:15:00 | 23.3           | 529              | 7.44        |
| 2       | 8/25/2009 | 23:30:00 | 23.26          | 530              | 7.35        |
| 2       | 8/25/2009 | 23:45:00 | 23.21          | 530              | 7.34        |
| 2       | 8/26/2009 | 0:00:00  | 23.17          | 531              | 7.34        |
| 2       | 8/26/2009 | 0:15:00  | 23.12          | 531              | 7.31        |
| 2       | 8/26/2009 | 0:30:00  | 23.07          | 531              | 7.29        |
| 2       | 8/26/2009 | 0:45:00  | 23.02          | 532              | 7.25        |
| 2       | 8/26/2009 | 1:00:00  | 22.97          | 532              | 7.24        |
| 2       | 8/26/2009 | 1:15:00  | 22.92          | 532              | 7.21        |
| 2       | 8/26/2009 | 1:30:00  | 22.86          | 533              | 7.15        |
| 2       | 8/26/2009 | 1:45:00  | 22.81          | 534              | 7.12        |
| 2       | 8/26/2009 | 2:00:00  | 22.75          | 534              | 7           |
| 2       | 8/26/2009 | 2:15:00  | 22.71          | 536              | 6.94        |
| 2       | 8/26/2009 | 2:30:00  | 22.66          | 538              | 6.89        |
| 2       | 8/26/2009 | 2:45:00  | 22.61          | 539              | 6.86        |
| 2       | 8/26/2009 | 3:00:00  | 22.56          | 539              | 6.85        |
| 2       | 8/26/2009 | 3:15:00  | 22.5           | 539              | 6.78        |

| Station | Date      | Time    | Temperature °C | Sp.Cond<br>µs/cm | oDO<br>mg/L |
|---------|-----------|---------|----------------|------------------|-------------|
| 2       | 8/26/2009 | 3:30:00 | 22.45          | 541              | 6.72        |
| 2       | 8/26/2009 | 3:45:00 | 22.4           | 542              | 6.69        |
| 2       | 8/26/2009 | 4:00:00 | 22.35          | 542              | 6.75        |
| 2       | 8/26/2009 | 4:15:00 | 22.28          | 543              | 6.72        |
| 2       | 8/26/2009 | 4:30:00 | 22.23          | 544              | 6.67        |
| 2       | 8/26/2009 | 4:45:00 | 22.18          | 545              | 6.66        |
| 2       | 8/26/2009 | 5:00:00 | 22.13          | 546              | 6.66        |
| 2       | 8/26/2009 | 5:15:00 | 22.08          | 547              | 6.63        |
| 2       | 8/26/2009 | 5:30:00 | 22.04          | 548              | 6.61        |
| 2       | 8/26/2009 | 5:45:00 | 21.99          | 549              | 6.53        |
| 2       | 8/26/2009 | 6:00:00 | 21.95          | 550              | 6.56        |
| 2       | 8/26/2009 | 6:15:00 | 21.92          | 551              | 6.62        |
| 2       | 8/26/2009 | 6:30:00 | 21.87          | 552              | 6.61        |
| 2       | 8/26/2009 | 6:45:00 | 21.84          | 552              | 6.59        |
| 2       | 8/26/2009 | 7:00:00 | 21.79          | 553              | 6.58        |
| 2       | 8/26/2009 | 7:15:00 | 21.77          | 553              | 6.53        |
| 2       | 8/26/2009 | 7:30:00 | 21.73          | 554              | 6.55        |
| 2       | 8/26/2009 | 7:45:00 | 21.71          | 554              | 6.53        |
| 2       | 8/26/2009 | 8:00:00 | 21.67          | 554              | 6.53        |
| 2       | 8/26/2009 | 8:15:00 | 21.66          | 555              | 6.54        |
| 2       | 8/26/2009 | 8:30:00 | 21.65          | 555              | 6.52        |
| 2       | 8/26/2009 | 8:45:00 | 21.65          | 555              | 6.53        |
| 2       | 8/26/2009 | 9:00:00 | 21.66          | 555              | 6.53        |
| 2       | 8/26/2009 | 9:15:00 | 21.68          | 556              | 6.56        |
| 2       | 8/26/2009 | 9:30:00 | 21.73          | 556              | 6.58        |
| 2       | 8/26/2009 | 9:45:00 | 21.98          | 1                | 9.03        |